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USSR Report

MILITARY AFFAIRS

No. 1605

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USSR REPORT

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HILITARY SCIENCE, THEORY, STRATEGY

SURPRISE FACTOR IN WARPARE DISCUSSED

Moscow SOVIET MILITARY REVIEW in English No 3, Mar 81 pp 22-23

[Article by Col M. Surovisev: "A Factor Contributing to Victory"]

[Text] The essence of one of the principles of the art of war can be expressed briefly but fully: "Surprise is the key to victory." But not everyone can use this key properly. Only the commander who can foresee the development of events, skilfully uses his forces and weapons, shows initiative, seeks to take advantage of favourable conditions and adopts nonstereotyped decisions can expect the actions of his subunits to take the enemy by surprise.

A RESULT OF CREATIVE WORK

A motorised inlantry regiment was fighting a defensive "bettle." The "enemy" had menaged to penetrate at the limiting point between two bettalions and was trying to exploit his success. Under these conditions the tank battalion commanded by Lieutenant-Colonel Yu. Atashin, which was holding defences in the regiment's second achelon, was assigned the mission to counterattack the flank of the penetrated "enemy," defeat him and restore the situation.

In spite of the measures taken by the command to regain the initiative, the situation remained strained. The "enemy" intensified his pressure and committed reserves in the area where success had been obtained. Besides, he had spotted the battalion's advance to the counterattack position and opened artitlery fire against it.

Having assessed the situation Lieutenant-Colonel Mashin ordered one company to confinue the advance to the precribed line, while the main body changed its route and reached the "enemy's" rear through the defence area of the neighbouring baltation. Leunching surprise affects against the "enemy" rear and flank the tankmen routed him and restored the situation.

This example demonstrates the commender's resourcefulness, his ability to exercise flexible control in active defence and to carry out an unexpected menosurus to achieve surprise.

In the hands of a skillul commander surprise is a powerful weapon. During the Great Patriotic War the Soviet forces enriched the art of war with numerous examples of actions which throw the hitlerite Command into confusion.

For instance, on July 13, 1943 Field Marshal Manstein, Commander of Army Group South, stated that he had crushed the Red Army forces covering Kursk in the south and that they were no longer able to advance or even to assume the delensive. Being convinced of this, Manstein sent the test divisions operating in that area to the Donbers, where the forces of the South-Western and Southern fronts assumed the offensive on July 17. But when the Soviet forces struck in the vicinity of Belgored and on the very first day crushed the next defences, the field marshal had to change his tune and began sending panic massages to the hitterite GHQ that the Russians had tramandously superior forces.

Experience testifies that surprise cannot arise spontaneously. It is a result of creative activities of commanders and staffs, which can be subdivided into three steps: pretiminary planning, careful preparation and timely execution of planned actions.

Such a subdivision implies in the first place understanding of the general and particular situation, knowledge of enemy tactics and endeavour to discover his intention, on the basis of which it becomes possible to foresee the development of events and to organise combat so as to stun the enemy by unexpected use of particular tactical methods at the right time.

When, for instance, a group of scouts advances undetected, under cover of darkness and favourable terrain conditions, to the enemy positions and catches a prisoner, it accomplishes the assigned mission by surprise. Combat engineers are guided by the same striving when laying and camouflaging mines on the most likely directions of enemy advance so that the enemy tanks and infantry run against them unexpectedly. Gunners also count on surprise other opening fire on concentrations of men and material.

IN THE OFFENSIVE

There is a great variety of ways and means for achieving surprise in the offensive. The attacker normally has the advantage because he can choose the method, time and place for delivering a blow. It is easier for him to mislead the enemy as to the real concentration of the main forces and the battle formation. By skillully combining air and ground affacks, delivering massed fire on the most impor-

tent enemy installations and lines, striving to disorganise the enemy antitank defence system he can achieve success in a relatively short time. The more dynamic and fluid the battle is, the greater the demands upon the commender's mobility and flexibility, his capacity to make use of any minor mistake, the slightest delay or hesitation on the part of the enemy to deal an immediate blow at his week point.

Of prime importance is the ability to take a creative approach to the existing of the test eatign. I. Thus, if the enemy expects a frontel affect one should be leunched against his flank. If the enemy moves forward his reserves he must be hindered or delayed when they negotiate natural and artificial obstacles or he must be forced to deploy them in an area where is difficult to make full use of fire and manoauver capabilities of weapons and equipment.

On lines where the fighting is in separate cer of resistence, conditions are fevourable for using ups and breaches in the defenders' bettle formation. Such menoeuvring actions in the enemy rear create the necessary prerequisites for capturing important lines and installations and disrupting the control system and logistics.

Attacks from different directions are especially effective when lighting tactical landing forces, because they make the enemy disperse his forces, thus fevouring his peacement rout.

The high capabilities of the modern equipment permit high-speed menoeuvres. In fluid battles, high speed of advance and resoluteness are at times more important then numerical superiority. Therefore, there is a direct connection between surprise and speed of advance. The higher the speed the switter the attack and the better the prospects of taking the enemy unawares. A high speed of advance increases the element of surprise and an attack that has caused confusion and hesitation in the enemy reaks should be backed by a daring manosuvre and accurate fire.

IM DEPENCE

The art of war knows numerous examples of a defender reducing all the efforts of the attacker to nil by countering with surprise actions and various tectical enigmas. The high characteristics of modern weapons have increased the possibilities for surprise. Their employment requires first of all most efficient use of defence strong pol organised fire and obstacle system, thorough ca angineer equipment of shelters, laying of ami nisation of killing grounds and simulated at Coupled with ferourable terrain conditions they help mislead the enemy as to the actual layout of the forward edge, battle formation and location of fire weapons, while skilful use at the decisive time and place of fire-support helicopters, ertillery, tanks, infantry fighting vehicles and mobile obstacle detachments makes it possible to inflict tengible losses on the enemy and frustrate his attack, and compels him to abandon his previous plen.

Though in defence it is impossible to be strong everywhere, this fact is far from busing an indication of weakness. A skilluity organised bettle formation, ruitable selection of the area where the main efforts are to be concentrated, staunchness and persistence, secret movement of second echaions and reserves to threatened areas, surprise counterattacks leunched from different directions and when the enemy least of all expects them provide the possibility to regain the initiative and change the course of the battle.

Surprise ections always have a strong psychological effect. A shorp and unfavourable change in the situation paralyses for some time will to resist, shafters morale and sometimes even raises penic in the enemy ranks. On the other hand he who has achieved surprise experiences eletion and a surge of energy.

PREREQUISITES OF SUCCESS

Surprise by itself does not guarantee victory, it only creates prerequisites which must be skilfully used to achieve the enemy's complete rout. This is because advantages arising from surprise actions are transient. They exist as long as the enemy remains confused. That is why it is very important not to reduce activity but to exploit the success achieved and thus prevent the enemy from restoring his organisation, teamwork and control system.

Knowledge of the ways and means of achieving surprise in specific conditions makes it possible to mislead the enemy. The commander's professional skill plays the leading role here, because achievement of surprise depends on his ability to adopt the most suitable decision, on the readiness of the HQ personnel to organise and secure its execution in time, on the ability of the servicemen to fight in complicated conditions at any time of the year or day.

Secrecy is not the least of the factors. By secrecy is meant a complex of measures aimed at depriving the enemy of the possibility to obtain the necessary information. These measures include limitation of the number of participants in planning combat operations, strict observance of troop control security measures and sound camouflage.

Military cunning also contributes to echleving success. For example, demonstrations carried out by limited forces on a secondary line of advance, organisation there of simulated concentration areas and activities make it possible to deceive the enemy and create favourable conditions for delivering blows in areas where he least of all expects them.

Misinformation is also a necessary measure. It consists in using different means and methods to deliberately convey to the enemy false information on the composition and character of impending operations of friendly forces.

Thus we may say that the main means of achieving surprise are the commander's creative activity in organising and conducting combat, the use of non-stereotyped actions, and also courage and resoluteness based on a deep knowledge of the laws of modern warfare.

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MINISTRY OF DEFENSE AND GENERAL STAFF

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MAR AND MILITARY DOUGPHENT WELATIONSHIP DIRCURDED

Non-on SOVIET FILITARY REVIEW to English So 12, Dec 79 pp 11-12

[Affice by Ma] Gen A. Milovidov, D. Sc. (Philosophy), professor, chief of the Chair of Herrist-Lembutet Philosophy, Lemto Military-Pulitical Academy: "Man and Equipment"]

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The importance of the pronciple of seeing time to inci-Many work has increased immediately Time being a ceive of a special bird, its loss is irrevacable. The time ever second in the deployment of troups or in the learning the of this ries to extend the throught and terminal. and no foregar in days or hours. Time keeing is a votal indicates of afficiency in scientific organization of militop tobase for instance, it may be expressed in bringing a press of equipment into standay condition in on time then is namely required by the occupied time. dendards, in scoring a lot on the larger with the first resemble (migration), manhating a multilary operately in legal time, etc. It is up that yolican these questions. The yofemion depends on his shifty quintity to acquire valid lating to the hereing of weapons and other compet equipment under opinion conditions

Broad "Rachinsation" of military teams calls for a trigh termal of computerce of man in the military and technical opheres. This problem can be opined daily if the emitte propulation of the country contently recestly effectively operations, by effectively, cylindra and technical level in general, and the personnel of the armed forces in particular.

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The ability of direct image perception of the countrol off plays on important vota represent case technical facilities introduce not only the commenter but also the position into the option of about a congress. There are now more and those alaments in nultiny about that teaching the ingress discussed office of commenter unit for projected engines, amproprised of mediaments of discongress of the plants of the project of discongress the plant with the legisle of another arithments.

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expenses of by man, increases it Employment of tophisticated mechines and instruments and the verted
character of the responsible functions performed by
man compatible to apply transmission concentration and
trappers a territis strain on him. Plungh work with toetruments appears to be consultance, the man must concontrol to attention to a maximum degree and must
be ready to adopt a decition of great responsibility of
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exhibit will power and partitions.

Organization and discipline are a concentrated exprestion of high moral-publical qualities.

Leadin draw the conclusion that in modern ware victorias want to the side that had superior equipment, organization, disciplins and before machines. Today this protection has fully retained its validity. More than that, its importance has increased. Attent through can grow over into a material force only if there is excellent organization. The more alaborate the equipment the greater the role played by the well organized effective cooperation of all the elements of the saw, and the more dangerous will be violations of discipline and regulation order.

A starsist-carical understanding of the man-military equipment relationship in warfare, helps correctly establish the course to be pursued by military personnel, formulate the strategy of military development, and the principles and methods of training and education of the personnel.

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ARMED FORCES

GARRISON, GIARD DUTY REGULATIONS

Moscow SOVIET MILITARY REVIEW in English No 12, Dec 79 pp 36-37 [Article by Col L. Pavlov: "Garrison and Guard Duty Regulations"] (Text)

" a saint of Corrison and Court Duty Regulations were approved by the Decree of the President of the LSSE Supreme Sound of July 30, 1975. Too Regulations as sown the organisation and procedure of performng garrison and guard auties. They also formulate the rights and duties of garrison officials and servicemen performing these duties. The Regulations are a guide for all military units, military educational institutions, starfs, adm in strations and establishments of the USSR Umed Forces

The Regulations read in part: "The purpose of garrison duty is to ensure maintenance of high military has prime among the garrison personnel and the necountry conditions for the troops everyday life and raining, and for measures to be carried out within the gary son with troop participation

Performing gerrison and guard duties is obligatory for military units of all lighting services in the Armed Forces. The sequence of performing these duties by mifory units is established by the garrison commander. As a rule, a duty subunit is detailed by the unit deis ling the garrison guard. This subunit is stationed within the unit's lines to be ready immediately to execute the tasks Assigned by the garrison commander or ammandant it is detailed to reinforce the guards or take emergency steps in case of lire, natural cala-The like

The garrison commander, his deputy for political affairs and the commandant are appointed in each garfricin on the order of the commander of the military district. The garrison commander is the direct superrior for all unit and subunit commanders of the gar rison and for each individual serviceman All garrison and signalling ill als the engineer his deputy for raidual als

I mointain riler and strict military during the alling the servicemen in the streets and char mustplaces of radius and terminals are any surports and inhabited localities adjoining the garrison, each garrison organises patrolling Patrols are detailed by military units and military educational establ shments

The patrolling route and instructions to patrols are worked cut by the commandant and approved by the garinem to amander

The Regulations stipulate that a guard of honour beappointed for doing military honours and for meeting and seeing off representatives of foreign states. If also sets forth in details the procedure of other ceremonies and troop parades

Performing garrison service in the Soviet Armed Forces is identified with fulfilling a combat mission. Therefore offenders bear both disciplinary and crimmal responsibility

Surers in of garrison duty within the military distrut is effected by the district commander, in the garrison by the garrison commander, and in the unit (on ship) by the unit (ship) commanding officer. In garrisons with neval units prevailing the control of guard duty is exercised by the fleet (flotilia) commander

The organisation of guard duty includes making a list of objectives to be guarded determining the composition of guards and indicating military units detailing them, drawing up guard schedule and duty roster layout of posts list of posts of the guard and imtructions to guard commanders; outlitting guard rooms and posts, providing lighting, communication

To be protected by guards are unit colours, military tiers and it so tars recent the commandant and and state objectives and persons kept under arrest at he he the gard one guardhouses petinem ther guardhouses and in correctional battalions. The guards garrison dulies persilel a in their main a crations may be permanent or temporary Permanent guards

are established by long-term achedules. Temporary guards are not included into the achedules; they are detailed by the order of the garrison (camp assembly) commander or unit (ship) commanding officer as the necessity arraes.

Bentries guard objectives by observation from towers and by patrolling. In the latter case a sector 2 km long in the day time and up to 1 km long by night is essigned in be guarded and delended, depending on the lancing of the objective and the terrain.

Reserve groups which act depending on the altuation on the battle starm signal are made up in each guard out of alert and resting shifts. These groups are provided with transport, if need be.

"The person of the guard is inviolable," the Regula-

special protection by law of his rights and personal dignity;

strict subordination to specified persons — guard commander assistant guard commander and the sergeant of the relief;

everyone a duty unfailingly to comply with the sentry's instructions defined by his service functions;

centre a right to use arms

Adequate conditions are necessarily provided for the sentry to enable him to perform his duties. Cuarded objectives are generally protected by internal and external fencing trenches, night lighting, signalling, roofing etc. Normally, guards are relieved every two hours. At temperatures below —20°C or above +30°C the relief is effected every hour Quiet and order must be maintained in the guard room so as not to interfere with the relieving shifts rest For instance. It is prohibited to sing or play musical instruments. The guards, however, may listen to the radio through earphones, read, write and play chess or checkers.

According to the Regulations the guard room is commoned of the following adjacent spaces, a room for the resting shift, for the guard commander and for his assistant. In addition, provision is made for food heating equipment, washing smoking arms cleaning.

footwear drying and cleaning rooms, a toilet and a fuel storeroom. An area to turn up the guard and to load and unload weapons is organised in front of the guard room.

it goes without saying that vigilantly performing guard duty is inconceivable without therough training and instruction of its guards. This work is done personally by the company (butters) commander or by the battation commander if the guard is detailed by the battation. Training of the guard personnel is conducted with due account for the peculiarities of each objective to be protected, in specially equipped locations. Three days prior to entering on guard duty, unit chiefs of staffs supply commanders of subunits detailing the guards with the layouts of posts, lists of posts of the guard and instructions to guard commanders for the personnel to study, after which these documents are returned to the unit's beadquarters.

The newly appointed guards star! performing the service after the guard mounting parade to check their readmess. Every serviceman of the Soviel Armed Porcess must assist persons performing garrison and guard duties.

Party-political work during guard duty is organised and carried out with due consideration for the specific tasks and peculiarities of defending and guarding various objectives. Primary attention is given to entrancing the personnel's vigilance, explaining the requirements of the regulations and to the personal responsibility of each serviceman for the atrict execution of his duties while performing guard duty. Of great importance is propagands of combat traditions and feats performed by servicemen on guard duty.

Such are some of the clauses of the Carrison and Guard Duty Regulations of the Armed Forces of the USSR Their strict execution by Soviet servicementheir high consciousness constant vigilance, connectent handling of wearons and equipment mutual assistance and firm discipline enable them to solve the tasks of guarding and defending military and state objectives.

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ARMED FORCES

COMBAT TRAINING METHODS EXPLAINED

Moscow SOVIET MILITARY REVIEW in English No 3, Mar 81 pp 15-17

[Article by Col A. Akimov: "Methods and Forms of Training"]

[Text] Military personnel develop combat skills for modern battle in the process of tactical and special training. This article is devoted to the methods and forms of combat training.

METHODS

A training method is a set of techniques for delivering or acquiring the military knowledge and skills necessary for the practical activities of servicemen, and for achieving feamwork between military units and staffs. Depending on the category of trainees, their training standard, the subject and the training objectives, different combinations of the following methods are used: oral delivery, varieties of which are explanation, narration, lectures, talks, demonstration exercise, practice, individual study.

Explanation consists in delivering the subject matter through discourse and proof. It is used to clarify articles of regulations and manuals, to substantiate solutions and enalyse the actions of trainees. Explanation is often combined with demonstration of some combat technique or action, weapons system or combat material or various visual aids.

Narration is delivery of the subject matter to give facts and features of life, describe events and their outcome. It is combined with explanation and demonstration of weapons, material and visual aids.

A lecture is a developed elucidation of a number of connected problems concerning a definite topic combined with demonstration of appropriate visual aids (maps, diagrams, slides, etc.). A lecture makes it possible to explain the most complex notions, theoretical concepts, and laws per-

taining to the subject matter. It combines both explanation and narration.

A talk is discussion of the questions studied as set by the instructor and followed by a summing

up by the instructor.

This method facilitates deepening and consolidation of the trainees' knowledge. It is helpful for developing clear thinking and concise speech, substantiating the propositions analysed, making calculations. Errors or wrong statements made by trainees may be revealed and corrected by others. The method of the talk is generally used in seminars.

Show (demonstration) serves to give trainers correct notions of how to handle weapons and material, of the design and functioning of military equipment. It consists in a model performance of the relevant action or technique by the instructor, showing of films, diagrams, or weapons systems. Show is generally accompanied by brief explanation. It is often used as help to other methods of instruction.

A show is widely used in group exercises, the instructor giving model formulations of decisions, directions and instructions illustrating a commander's control and leadership technique. It is also used to teach the technique for carrying out certain actions and movements during tectical drills.

Exercise (drill) is multiple repetition of operations and procedures to develop skills. It serves to teach the trainees to apply their knowledge and to perform certain actions in particular conditions. It is generally eccompanied by show and demonstration.

Practical work consists in trainees performing their functional duties as part of a control body, a subunit, unit or formation in complicated operational conditions. It serves to extend their knowledge, abilities and skills and to improve their moral, political and combat capacities in simulated battle environment. Practical work demands high efficiency and self-reliance. Therefore, it begins only when the trainees have acquired the necessary minimum knowledge. This method is widely used at tactical lessons, command post and field training exercises.

Individual study of regulations, manuals and other sources implies reviewing, reading and summarising the recommended literature to expand, deepen and consolidate one's knowledge. By studying the literature individually the trainees develop independent thinking and learn how to make conclusions and generalisations. Individual work is organised and directed by the instructor, who gives consultations to the trainees whenever necessary.

Teaching methods produce maximum effect when the instructor skilfully combines explana-

tion, talk, show, exercise and practical work in the training process. The form of training must be chosen according to the circumstances.

FORMS

The forms of training are essentially dependent on the conditions as a whole: the training standard and organisation of the trainines, the structure of the lessons, their place and duration. The choice of form is dependent primarily on the training objectives and the trainees category. With officers it will be lectures, seminars, group lessons, tactical tests, individual studies; with staffs, staff drills, command post exercises; with troops, field and tactical lessons and exercises.

Let us consider some of these briefly.

A seminar permits deepening, consolidation and systematisation of the theoretical knowledge acquired in some aspects of tectical training. The effectiveness of the seminar greatly depends on the atmosphere of the lesson. The best results are achieved when the trainees freely express their opinion on the question dealt with.

A group exercise is a form of operational and tactical training of generals and officers used to consolidate theoretical knowledge, to acquire skills and proficiency in organising and planning combat activities, control and leadership.

Group exercises are widely practised in military schools, during officers' training periods and at officer training assemblies. The trainees are usually divided into study groups. They read the recommended literature and the tactical situation and prepare to act in one or several capacities (commander, chief of staff or chief of a fighting arm or service), while the instructor takes on the functions of superior commander and his staff, adjacent units or of the enemy.

Group exercises may be held in the field, in classrooms on the maps, or on a terrain model. These exercises take usually one topic at a time and involve one type of combat which is covered during one or more lessons. Several problems are studied during group exercises.

A tactical briefing is intended to check the competence and skills of officers in a particular aspect of troop control, to provide training in self-reliance, quick analysis of the situation, the decision making and mission assignment. A tactical briefing is a lesson involving solution of one or seldom two tactical problems.

A staff drill is a form of staff training intended to develop individual skills of staff officers in performing their particular duties and to promote teamwork between departments, divisions, sections and other elements. The staff drill consists in the staff officers (supervised by the commander or chief of staff) doing their job in planning and troop control in a simulated combat environment making use of communication equipment.

A command post exercise is a form of commanders' and staffs' combined training. As regards purpose command post exercises are divided into general, inspection, special, demonstration, experimental, research and development exercises. According to scope they are divided into tactical, operational and strategic exercises; as regards the parties involved they may be either one- or two-sided.

A command post exercise is generally devoted to a complex subject involving more than one type of fighting. It is intended to perfect prectical skills of generals and officers in troop control and leadership, to promote smooth work of bodies and agencies, to check the proficiency and teamwork of staffs.

A field training exercise is the most popular form of combat training of commanders, their staffs and forces. A field training exercise provides the best conditions for combat teamwork of units, for improving skills and efficiency of commanders and staffs in organising and controlling combat activities. As regards scope field training exercises are divided into company, battalion, regiment, atc., exactises., According to their purpose they may be general, inspection, demonstration and experimental. As to the parties involved they are either one—or two-sided and as regards the degree of fire simulation they may or may not involve live ammunition firing.

A one-sided exercise provides for simulation of the enemy by a force with special simulation equipment. The exercise may be held on any terrain under a variety of weather conditions by day or by night.

A field training exercise is developed and controlled by an officer who is one level higher than the unit under training. He is eided by his deputies, staff, chiefs of the fighting arms and special services, the main responsible body being the staff.

The forms and methods of training are organically inseparable. The form generally determines the method and vice-versa: a lecture the lecturing method, a seminar the talk method, a group exercise, tactical briefing, staff drill and tactical and marching drill exercise the exercise method, tactical exercise, command post exercise and field training exercise the practical work method. The forms and methods of training must be continually perfected and used imaginatively with due regard for the concrete situation.

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PHYSICAL TRAINING: COMPREHENSIVENESS OF PROGRAM DESCRIBED

Moscow SOVIET MILITARY REVIEW in English No 3, Mar 81 pp 62-64

[Article marking the 50th anniversary of the All-Union physical fitness program "Ready for Labor and Defense of the USSR" by Rear Adm N. Shashkov, Chairman of the Sports Committee of the USSR Ministry of Defense: "Physical Education for Millions"]

[Text]

Physical education in the USSR is an important means of strengthening people's health and preparing them for their work and for the defence of their socialist state. The methods and forms by which Soviet people receive physical education were elaborated as far back as the 20s and 30s, when more than 60 voluntary sports societies were organised. Intense military-patriotic and sports work was carried out among the population by Party, state and public organisations.

To attract the people to take part in regular physical education, the all-Union physical-fitness programme "Ready for Labour and Defence of the USSR" (abbreviated in Russian as GTO), first stage, was adopted throughout the country in March 1931. It included the requirements for sports standards in running, long and high jump, swimming, rowing, skiing, cycling, grenade throwing, weight lifting and weight carrying and pull-up exercises on a horizontal bar. To give the people military education and the appropriate skill, the GTO programme included military-applied events such as merching drills, camouflage, topography, hand-tohand fighting, rifte firing, first aid and sp on.

A year later a new and more complicated GTO programme was introduced. This was followed by the "Be Ready for Labour and Defence of the USSR" (BGTO) physical-fitness programme for children. The exercises and athletic standards adopted by the GTO programme formed the basis of physical education at schools, secondary vocational and higher educational establishments and physical culture collectives at industrial enterprises, institutions, collective and state farms.

In 1937 unified all-Union sports ratings were established which was very important for reviving mass sports activities and scoring new sports achievements.

In the mid-1930s the organization and method of the physical education system in the Soviet Union were substantiated and further developed. An integral part of this system is the physical training programme of the Soviet Armed Forces.

The introduction of the GTO programme contributed greatly to enhancing physical fitness in the Soviet Armed Forces. A sports emulation movement was initiated in companies, regiments, divisions and military districts. The contestants who achieved the best results were swarded badges.

During that period ermy sportsmen became the initiators of distant ski and dismounted marches and summer and winter spartakiads with a great number of competitions. National teams began to be organised at the Frunze Central House of the Red Army (now the Frunze Central House of the Soviet Army). By persistently improving their skills army sportsmen scored bigger successes in all-Union competitions.

The Soviet physical education system and its training of young people for the defence of their Motherland, proved their worth during the grim years of the Great Patriotic War (1941-45). After the war real mass physical culture movement developed in the country. Trade union voluntary sports societies were reorganised, new rural sports organisations were established and the system of physical and military-patriotic education of students was improved. The sports facilities and equipment were considerably increased, new physical culture educational establishments were opened and the number of winners of the GTO badge steadily increased. As a result the number of people who practised sport regularly increased by millions.

All this made it possible to prepare worthy replacements for the Soviet Armed Forces. It must be borne in mind that the complicated constitions of modern battle make higher demands on the physical filmss of every officer and man.

To meet the new requirements, measures were taken to improve the physical training system in the army and navy. One such measure was the publication of a physical training mencal which serves as a guide for organising and carrying out physical training lessons and mass sports arrangements including the GTO to re. Annual all-ermy sports reviews have become a tradit! It for purpose is to sum up the results of sports activity is units, formations, military educational establishments and fighting services in order to determine the winners. The number of those awarded the GTO badge is an important factor in the overall assessment of each military unit competing.

The high physical training level of army sportsmen and their intense sports ectivity enabled them to conquer a stable position both in all-Union and world championships. The participants in the First Spartakied of the Soviet Hations (1956) included more than 1,000 army sportsmen. 90 of them winning the title of national champion. The following spartakieds played an important part in preparing Soviet sportsmen, including those in the forces, for the Olympic Games.

The establishment of the Friendly Armies' Sports Committee (FASC) — a sports union of the socialist armies — was a new step in further strengthening comradeship-inarms between the armies of the socialist countries. The
FASC is aimed at improving physical training in the friendly
armies, facilitating exchange of experience in organising
research in the field of sport and promoting higher sports
achievements.

Important work to improve the physical training guidance in the Soviet Armed Forces is carried out by the Sports Committee of the USSR Ministry of Delence Instituted in 1962. It initiated deep and comprehensive research to determine the interconnection between physical and combet training of military personnel. Specialists worked out rating standards for a number of military-applied exercises. The introduction of standards for military applied exercises made sport still more important in combet and physical training of the armed forces.

Owing to the fact that a higher standard of general and special physical training was required of servicemen, the GTO programme was replaced by the Military Sports Complex (MSC) instituted on January 1, 1965. The MSC formed the basis of mass sports activity in the Soviet Armed Forces.

Among the competitions held in the forces those conducted under the motions: "From GTO Bedge to Olympic Medal" and "Officers' Starts" are especially popular. Physical training and sports serve to further raise the forces' combat readiness, to improve their military, neval and air fraining standards and their professional skills. The same purpose is pursued by mass sports contests such as plation combined competitions, military triathion, officer combined competitions, obstacle course negotiation, cross-

country running, military-applied relay races, etc.

The army and nevy provide all possibilities for furning out highly qualified sportsmen capable of competing in world chemplonships. They have the most up-to-date equipment and new sports establishments are continually being commissioned.

The constant care of the Communist Party and the Soviet Government for the harmonious development of the personality gave rise to a mass physical culture movement in the country. Thousands of sportsmen train in voluntary sports societies and sports collective and industrial enterprises, educational establishments, collective and state farms. A new all-Union physical-fitness "Ready for Labour and Defence of the USSR" programme was introduced in March 1972. It devoted particular attention to military-applied events so as to prepare people for military service.

The GTO programme provides improved organisation and guidance of the physical culture movement and the new forms of mass sport events help to make sport still more popular. Various competitions to meet the requirements of the GTO programme are held all over the country. Very popular in the contest "Hopes of the Future" for children.

The GTO programme contributes to the harmon'ous development of the Soviet people, helping them to maintain their health, capacity for work and creative activity for many years. The programme consists of five stages designed to take into account the special features of different age groups.

Each stage of the GTO programme includes two parts. For the first part the cendidate must show knowledge of the Soviet physical education system, personal and public hygiene, the rules and means of self-protection against mass destruction weapons and must regularly perform morning exercises. The second part consists of exercises. Those who meet the requirements of the first, second and third stages receive a silver or gold badge, those who meet the requirements of the fourth stage receive a gold badge with distinction. Success at the fifth stage is rewarded with a gold badge.

The Soviet people have all the possibilities for passing the tests of the GTO programme. Today the country has 3,000 large stadiums, 70,000 gymnasiums, more than 1,500 swimming pools and over 600,000 sports grounds and playing fields. These and many other sports facilities are provided for 55 million athletes and sportsmen who are trained by 52,000 highly qualified coaches and over 6 million coaches and instructors working on a voluntary basis.

Every year millions of people take the GTO tests. They compete in strength, egility, quickness of response and endurance. The GTO programme trains the Soviet people in a spirit of readiness to work for the lofty communist ideals and to defend their Socialist Motherland.

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AVIATION REGIMENT MAINTENANCE OPERATIONS DESCRIBED

Moscow SOVIET MILITARY REVIEW in English No 12, Dec 79 pp 26-27

[Article by Col V. Lebedev: "Engineering Is His Calling"]

[Text]

eonid Anishchenko was in a hurry. A strong wind was blowing outside and the sky was overcast. If was crizzling. That day Major Anishchenko, deputy squadron commander for engineering service, was to be at the work site of the regimental aircraft servicing sector where scheduled maintenance was nearing completion on one of the squadron's airplanes. Anishchenko had made up his mind to see for himself whether everything had been done correctly.

Good morning," he said to the sector's chief. "I see you've been here for some time already," he added.

He liked this tall, broad-shouldered, composed man, who worked hard and was respected by the whole regiment.

That day, however, was an unlucky one for the sector's chief and his subordinates. Anishchenko learned that the sector's specialists had failed to check the fluid level in the undercarriage. shock-absorber leg.

Anishchenko could, of course, have done with a report to the unit commander. But he insisted that the question of the quality of maintenance operations be discussed at a session of the Party committee and at the method council technical section. Certain officers questioned the expediency of such a measure, but Anishchenko resolutely opposed the sceptics, holding that there could be no trilles where reliability of combat equipment was concerned. Eventually, everybody agreed with him.

Anishchenko started with the improvement of technical training. Inspecting the classrooms one day, he noticed that there were few training aids and stands there. Some diagrams and graphs had yellowed with time and needed to be redone. Anishchenko then visited

service premises. There too he discovered a number of shortcomings.

Before taking a concrete step Anishchenko always thinks everything out thoroughly and has talks with his subardinates. That was exactly the case when he reported his observations to the unit commander after having specified the state of engineering service in the unit. Then he draw up a long-term plan which the commander readily approved. The plan provided for theoretical and practical training and for individual assignments to specialists of different categories, as well as for new training facilities and whole classes.

There was a particular need for a special monitoring class, because in-flight monitoring data allow engineers to make precise estimates of the equipment's condition and foresee its behaviour for the future. It also enables them to establish the causes of failures in the air.

Once a malfunctioning in the aircraft's power plant through the pilot's negligence occurred in flight. On landing the pilot reported the incident to the squedron commander But nobody Informed the engineers about what had happened. It was only owing to the in-flight monitoring data that the specialists were able to find out the fault.

The incident was discussed with the flying personnel, and the crew responsible for the fault were duly reprimended. The deputy squedron commender for engineering service held a special lesson on the rules of engine operation in the air. The lesson was undoubtedly of greet use. But Anishchenko realised that it would have been much more useful if the taken place in a room with special equipment for viewing and analysing the in-flight monitoring

data. So he decided to organiso such a class as soon as possible. To implement his idea, he enlisted the services of such experienced specialists as Major Engineer A. Golovkin, Praparshchik B. Kostov and others. In the beginning a mockup was made to determine what equipment was preferably to be installed and in what piece, and what additional in-flight monitoring aids were to be manufactured. The unit commander approved this initiative.

The airmen set to work, and the new class was soon commissioned.

The training base has changed considerably too. Highly popular with the airmen is a simulator of a radio station with an electrified functional diagram, which gives the operator the opportunity to improve and consolidate his skills in operating the station and to better understend the sequence and essence of the processes taking place in the electronic devices. Other simulators manufactured by the unit's engineers are also of great help to airmen in improving their knowledge of engineering. The equipment includes, for example, simulators for adjusting the limit switches in the flap control system, checking the fuel consumption measuring system, monitoring the condition of the aircraft's power system and for inspecting and funing the artificial feel system.

Leonid Anishchenko succeeded in kindling the innovators' interest in his initiative. They worked with enthusiasm to renovate the training base. Today the unit has modern training classes for the main kinds of combat training and political education.

Once the commander observed that certain technicians overestimated their capabilities and claimed special conditions for themselves.

Anishchenke saw at once whom commander was referring to. He knew him very well and took a liking to him from the very beginning. the man in question graduated with honours, mastered his trade quickly enough and passed the exams to become 2nd class specialist. At the end of the year the bomber he was essigned to bore the inscription:
"Excellent eircraft of the unit." Then he was entrusted with servicing a duel-control electaft. Now he had much more work to do. But the technician worked hard and confirmed his reputation as an excellent specialist. He read a lot of technical literature to get ready to enter an engineering academy. The young specialist was elected to the squad-ron's Komsomol bureau.

Anishchenko closely watched the lieutenent's progress, supported him when the need erose, and cited him as an example for the others to follow. But one day he learned what the young technicien had said to his chief:

"I am servicing a duel-control machine. So I got to have the best specialists to help me."

Anishchenko made up his mind to have alk with the lieutenant. The engineer was surprised that such a capable man insisted on the best specialists for his crew, thinking it unnecessary to train them himself. First of all he thoroughly checked the condition of the aircraft he was servicing. Everything was all right. Then the talk started. That evening they talked for a long time. Nobody knows what they talked about, but since that day the young lieutenant's fellow-servicemen noticed a striking change for the batter in his behaviour: he became modest and attentive to mechanics.

Communist Leonid Anishchenko speres no effort in working with the young people. In so doing, he makes use of diverse methods and forms. For instance, he originated a special ceremony at which trainees are made technicians alser successfully passing their exems. The squadron is formed up for the occasion. The unit colour is brought out to festive orchestra music. The commander takes the floor. He says that new specialists are joining the military collective, and hands them over the service log of the aircraft they will have to prepere for flights.

Engineer Anishchenko lives by the principle: not only train but also educate your subordinates. Here is but one example to illustrate this.

There is a Captain M. Vasin, chief of the operational and meintenance service, a conscientious men and a competent specialist on the whole. In the past, however, he made mistakes in his work, e.g. he focussed his attention on matters which he considered important and tried to bypass those which he thought secondary. Anishchenko called in the officer and said:

"Vasin, you are trying to divide everything into significant and insignificant. But I believe that even minor negligence on your part may lead to big trouble. You should be more attentive to people. If they come to you with requests and suggestions, they consider them vital matters."

The talk made Anishchenko arrive at the conclusion that Vasin was not always capable of essessing correctly this or that suggestion. Moreover, not only Vasin but other officers as well thought that it was quite sufficient to finish a military school to become proficient specialists. He displayed tact and patience in convincing Vasin that he was wrong to think so. Anishchenko realised, of course, that one conversation was not enough. Nevertheless, he was pleased to observe that when leaving his studies Vasin was not so self-essured as when he was entering it. Something must have touched a raw nerve.

Anishchenico's personal experience played no small part in that. Vasin was well aware that after graduation from a secondary military school Anishchenico had worked as a technician and then as senior aircraft technician. Then he was appointed chief of the squadron engineering service. He had constantly studied diligently to keep abreast of the times. Then he felt that a higher education was a must he entered a military academy and graduated from it with honours. Such sound professional training is helping the chief of the engineering service to cope with his tasks successfully.

Anishchenko can always quickly locate trouble in the equipment. Once V. Ivanov, senior alreraft technician, could not establish the cause of malfunctioning in a duel-control aircraft no matter how hard he tried. When Anishchenko learned

about it, he rushed to the techni-

"It's overheating," I vanov reported. "As a result the turbostarter becomes disengaged with normal monitoring parameters."

Having attentively listened to the senior lieutenant's report, the deputy commender for engineering service recommended that the compling of the turbosterter to the engine compressor be checked. The chack revealed the correctness of his assumption.

Anishchenko's efficiency report reads in part: "Hes vast experience. Shows analytical thinking in trouble-shooting. Systematically coordinates training with flying and technical personnel, shows competence in method. Pays much attention to eleboration of specific recommendations aimed at ensuring high reliability of all systems and assemblies of aircraft, and to flight safety."

Reliability of equipment depends on many factors, primarily on the personnel, their training level, end efficiency and exactingness towards their work. Anishchenko realises this fully well. He works hard and constantly sees to it that all the requirements of engineering service manuals and other documents are strictly carried out by commanders and subordinates alike.

Leonid Anishchenko contributed a great deal to ensure high reliability in the unit. The engineering service control point has been completely reorganised, and a new installation informing on emergencies in flight has been constructed with the scrive participation of Major Engineer V. Potepukh and Praporshchik V. Rudenov.

Anishchenko's working day is full of practical matters. He hates to remain in his study for long, preferring to be at aircraft parks, servicing grounds and classrooms, i.e. wherever new knowledge is ecquired and equipment reliability and flight safety are ensured.

The unit's Communists have placed great confidence in Anishchenko by electing him to the regimental Party committee. In his Party work too he is as indefetigable as everywhere else. Anishchenko is rightfully respected for his firmness, principledness, sincerity end concern for others.

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FIELD TRAINING STANDARD DEFINED

Moscow SOVIET MILITARY REVIEW in English No 12, Dec 79 pp 16-19

[Article by Col Gen V. Merimsky (Merimskiy), dep chief, Main Administration of Combat Training, Ground Forces: "Field Training Standard"]

[Text]

n the Land Forces the term "field training standard" means the set of practical skills acquired by the personnel, proficiency and team-work of subunits, units and control agencies and their capability to conduct military operations under various conditions.

Field training includes tactical (special tactical), fire, technical (specialised) training, operation of combat vehicles, and also the moral-psychological and physical training of the officers and men.

As the means and methods of warfare progress the requirements of the field training standard change. At present the Land Forces are outfitted with large numbers of sophisticated fighting vehicles, complexes and weaponry. To employ these weapons and other combat equipment in battle every serviceman must be highly proficient in his special field and every crew must display excellent team-work. The volume of knowledge and practical skills to be acquired by the personnel is constantly increasing, whereas the time needed for their mastery remains unchanged. That is why it is necessary to search for more effective forms and methods of training of troops in all sections of the combat training programme, with the stress on tactics.

The Soviet Armed Forces strictly adhere to the basic principles of instruction, including consistency, systematism and training of troops in elements essential for victory in modern combat. In pursuit of the principle of consistency of instruction the training year has been split up into two periods.

In pursuit of the principle requiring the training of troops in elements needed in war, all lessons, drills and exercises are conducted in conditions which approach those of real combat to the maximum degree.

Instruction has to be concrete. Every soldier and sergeant must acquire a definite votume of knowledge and skills in his special field to be competent in it. The purpose of training is not to provide superficial knowledge about everything. At the same time interchangeability in crews and subunits plays an unprecedented role. If some of the members of the crew are disabled this does not mean that crew served weapons and other equipment should stop functioning.

Since factical training forms the pith of field training, it is quite natural that special attention is paid to the study of this subject.

The Land Forces employ three basic forms of drills in factical training: factical and marching drills, factical drills and factical exercises, including exercises with field firing.

Tactical and marching drill exercises form the first stage in achieving unit team-work. It is at these exercises that the personnel of subunits work on the methods of action in various forms of combat, first on the separate elements at a slow rate and then on the complex within the set standard time limits. The methods of action which have not been adequately mastered are repeated until the necessary degree of proficiency has been acquired by the trainees and until the subunits

eshibil effective team-work

The main method of instruction of tectual

and marking drill assisting it drills.

The factoral privations is created to ofter the most feroproble conditions for work on the question being studied. However, if is not biways necessary to create such a physicist. Dolly they be performed with or without the help of Ingrapage lederers

The factorial and marching drill exercises are conducted by the commander of the given

Binarder 1

factical drills are a higher stage in tectoral training. Their purpose is to exhibite teams work in the polymois and to improve the skills of the commendars in the organization of combal and control of subunits in pulsuit of their P-44-074

At laying drills the questions being shaded. are examined in stript provence against the background of a single fertical education in the

given form of combet.

The main method of instruction during factical drills is practical work and drills in the fullilisant of procedures and methods of acfrom on the bettlefield. When such driffs are held the whole subunit with weapons and other combat equipment perfugietes in them. If n'so takes the support means provided by the fection guide

Wars as thus, questions a conducted with a designated enemy. The shill is conducted by the immediate superior of the subunit commen-

Ber whose substituted is executing if

Terrical exercises are the highest form of restruction of subunits units and formations Prepar game and

== to get the rubunits and units to achieve feeth work in everyting mesions in serious ferms of combat and to check their readings. Cor combat

- to improve the skills of commendary and staffs in organising minters operations and sininterrupted control of subunity unity and for-

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in to teach the personnel the skills needed for action of automits, for the employment of weapons and other combat agreement, to decolog in the paryicomen a tolky murale and combal and psychological qualifies.

A farfice even up is cormely devoted to a complex theme and is conducted in a difficult and dinamic situation. The commanders and

staffs learn to organise combat on the ground and to conduct angagements in any attuation.

An everyor may be undetered of fermales exercise. A ferriside exercise produces more effective results. Although if is more difficult to imperies and conduct such an avarries, it produres for helter results in the training of commanden, staffs and brown

All safeguries of servicemen, find fever-side eventure more interesting and existing, be-(dute just exercises compet them to valve all matters bearing on reconnectance, intelligames security and conducting of military eperahem.

The most complicated and effective facts of brook framing is tertical economic with conware living this other form is an instructive. In the course of such exercises the commenders and staffs gain practical aspariance in the emprogrammed of all the fire executive evaluable to them they learn how to make effective use of have means for the neutralization and destruchun of the "exemy", they arguing skills in conbuilting combal operations of subunits and units and learn how is ampliny comparently the results of air and artitlery affacts.

fartical exercises with field firing produce a powerful poychological effect on the personnel. Artitlery and morter shalls flying over the heads of the friendly troops, massive fire from all weapons, shall bursts an attacks carried out by humbers and affect planes on "enem-" targets in close presimily of the friendly galaunity create conditions that closely expression those of real combat. Though the command encounters considerable difficulties in organis. ing factoral exercises with field firing, prate-

rance is offer grown to them.

Fire training is an element of the field train. ong standard of troops. It is incaperable from factors and is subscribinated to the latter, five is a vital condition for the achievament of vicfory in combel. Unless the men are proficient in conducting accurate and rapid fire at uprings largets on the bettlefield in any situation, in daylight and in darkness, they will be unable

to attack we furly

All fire training strills the personnel study their measure, fundamentals and rules of firing fearn to prepare the weapon for firing, dater largets, determine the distance to thom, independently determine the initial fring data and hit various targets on unlamiter ground

with mountain line.

The main form of instruction here is lire prectice, which is organised and conducted within the framework of a company. At such drills the man are taught firing techniques (handling of weapons), burling hand grandles and accomplishment of lire missions in beaping with the firing rules.

In the course of long drills special ellention is paid to preparatory exercises which are manageral both with and without the use of amountain. Deparating on the prolicency of the men the commander works out the conditions for the preparatory drills. This method enables from to act effectively in various target altunitions. They cause the men to become factically mining and display initiative and independence in the fulfilment of fire missions.

The Land Forces are equipped with the latest combine equipment This has enhanced the role of the technical training of the personnel, officer personnel above all. Though the efficers have been equipped with edequate knowtedge at military schools and academias, they will ag behind in military science unless they work hard to been abreast of the latest deveingment and to maintain their knowledge and on its of an adequate level.

The field training standard of troops largely depends on the technical competence of the stances on their shift in driving vehicles on poor roads and in negotiating all sorts of obstacles. Only persistent and regular training of hans odromes, motordromes, on verious types of terrain and in difficult conditions enables them to become master drivers. Training of the operation of vehicles is conducted equinor the beckground of techcal situations and is accompanied by the execution of training the order of the operation of the planned to enable to; training to ecquire practice in operating vehicles in evinter, summer and the autumn and

spring bad road season.

The field training standard largely depends on the training facilities at hand. New equipment calls for a new epproach in mastering it it is necessary to introduce more effective training ends to achieve thetter results. This is particularly true of fire and technical training and training in the operation of vehicles.

All present the Land Forces have been using various training aids and programme training classrooms on an increasing scale. These facilities help the man master the weapons and other combat equipment in less time.

The men will not achieve due proficiency in field training unless they are psychologically steeled, i.e. unless they develop qualities that will enable them to carry out any missions in the most dengerous and tense situations.

Party-political work is designed to help develop these qualities in the troops. The political bodies, Party and VCL organisations mobilise the efforts of the man to complete the combet training programme, and achieve excellent results in tectical drills and exercises, field firing and target practice drills, and in the operation of lighting vehicles.

Special attention is paid to the socialist emulation movement which is a potent instrument in the eccomplishment of the missions assigned to the troops. The element of competition spurs the training of every individual servicement every subunit and unit.

The field training standard is a vital indicator of the combat readiness of troops in raising the efficiency and quality standard of combat training and political advection the commanders, political workers and all personnal of the units and subunits of the Land Forces continue to improve their combat skills and do their utmost to strengthen the defence capacity of the country.

"Soviet Military Review." No 12, 1979

CG: 1819/58

ANTITANK GUIDED HISSILES DESCRIBED

Moncow SOVIET MILITARY REVIEW in English No 12, Dec 79 pp 34-36

[Article by Col N. Kharitonov: "Antitank Guided Missiles"]

[Text]

An important feature of modern combined-arms combat is the ebundant use of armoured vehicles (tanks, IPVs, APCs) in battle formations of the warring sides. Whence the constant search for new antitank means and methods to improve the existing ones.

In recard years notable achievements have been made in this field, first, the armour-planting ebility of entitlank missiles has been enhanced. Thanks to the use of cumulative effect scientists have been able to eugment it more than two times. According to some foveign specialists modernised standard shells can also be used against tanks especially when fired from guns with high initial velocity (over 1,000 m/s).

Antitank guided missiles (ATGMs) proved to be a qualitatively new weapon possessing high hit probability. According to foreign press reports the hit probability of a moving tank is 70-90 per cent. Thanks to the use of shaped-charge warheads the armour-piercing ability of those missiles reaches 400-500 mm and even more, ATGMs do not lose this ability with the increase

FIR. I. ATGM MAKEUP

1 — warhead; 2 — airframe; 1 — wings; 4 — power unit; 5 — missile-borne guidance

of firing renge which varies from 3,000 to 4,000 m. And, lastly, the relatively small weight and dimensions of portable entitank guided missile systems allow them to be located unobserved directly in the battle formations of advanced subunits. As a result, ATGAMs were widely used in the ground troops of many countries. Recently they have begun to be used on an increasingly large scale as amments for fire support helicopters.

The antitank guided missile system includes a leuncher and 2-4 missiles. The launcher and missiles are usually packed separately and can be carried by the crew. The system can also be mounted on cross-country ermoured vehicles such as APCs and IPVs or on special chassis.

The main components of an ATGM are shown in Fig. 1. The warhead is intended to destroy a target. It contains on explosive charge whose nose is a cone-shaped hollow. The damage effect of a shaped-charge warhead missile is redically different from that of an armour-piercing shell. When hil with a shaped-charge antitank minalle, ermour like any other solid obstruction is destroyed with a thin gas and metal jet which is produced by the exploding charge and has a directional effect. The armour-plarcing ability of a missile increases if the value of its angle of impact approaches 90° and its angular speed is kept low. The cumulative jet is ejected at a valuetty of 12-15 km/s at a pressure exceeding 100,000 kg/cm². To enhance the damage effect of a missile. The charge hoflow is covered with a thin metal coaling.

The airframe houses all the components of a missile. Its middle or tall part (depending on the design) corries serody.ramic surfaces (wings or fins) which can be folded so as to decrease missile dimensions when in

Based on Soviet and foreign press reports.

a travelling position. The airframe fall is equipped with tracers or some other powerful light sources in order to make the missile clearly visible in flight.

The power unit is installed inside the missile eirframe and serves to provide the missile with the required velocity. It includes a posster and a sustainer. The former is used to develop a great reactive force so as to communicate the prescribed velocity to the missile on the faunching trajectory. The purpose of the latter (sustainer) is to maintain the required missile velocity during its controlled flight until target hit. The sustainer nozzie can rotate around its longitudinal axis. As it deflects from its middle (neutral) position, a control mement of reactive force is produced, causing the missile to deviate as ording to the control law.

ATOMs are usually equipped with solid-propellant rocket engines made in the form of primer cylindrical grains.

The missile-borne guidance is the most important missile component. It is used in combination with the ground control equipment to guide a missile to the target. There are different remote-control systems used to convey control signals to ATGMs. But most widely used are those effecting control by wires or radio. Each of these systems has its own edvantages and disadventages.

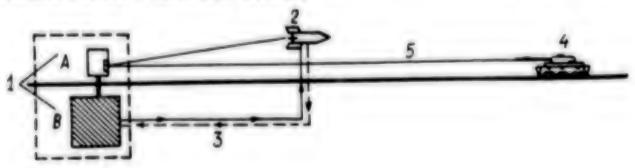
The functional block diagram of the antitank missile guidance system is shown in Fig. 2.

The mission of destroying a target is carried out by the missile operator. He observes the battlefield, selects a target and launches the missile. Observing the target through the sights he guides the missile to it. The ground control equipment is used to produce and transmit control commands to the missile. The purpose of the missile-borne guidance is to receive commands, convert and convey them to the appropriate actuator devices (control fins, rotating nozzles, spoilers). Missile guidance may be executed by one- or two-channel control diagram. When the two-channel control diagram is used, the missile flies without spinning and its control may be effected simultaneously by altitude and direcfignal commands transmitted through the two channels in the vertical and horizontal planes respectively. In these circumstances the missile actuator devices deflect the missile upwards or downwards and to the right or left, thus appropriately changing its position relative to the target.

When a missile is guided eccording to the one-channel diagram, if spins in flight. The control signal causes missile deviation only in one plane (horizontal or vertical). Therefore, with a spinning missile control commands are transmitted so as to deflect if on both planes. One-channel control is usually used for ATGMs of small size and weight and an easily operated missile-borne guidance.

The launcher of a portable antitank missile system is designed to guide a missile before launching, to make the launch itself, and also to accommodate the ground control equipment. For instance, a launcher may be constructed as a rest outfitted with a sight and control equipment and mounted on a tripod. The missile proper is constantly enclosed in a special container no

Fig. 2, ATGM FIRING DIAGRAM 1 — launcher (A — sight; B — ground control equipment); 2 — ATGM; 3 — remote-control channel (by wires, by radio); 4 — target, 5 — "operator-target" line of sight



matter whether it is in storage, transported or placed on a launching rail. This measure greatly contributes to the high combat readiness of the antitank missile system.

The launcher of a SP antitank missile system carries a launching rack which consists of 4-8 guides. All the ground control equipment including remain control and euschary equipment is housed inside the launcher. Its crew consists of 2-3 men.

The so-called first generation of ATGMs began to be adopted for service in the late 1950s. Missile velocity was comparatively low — approximately 100 m/s. It took a missile on the average 20-25 seconds to reach a target which allowed the latter to managerize on the battleticid. Missila operators' training was also rether complicated. The fact is that at that time ATGMs were manually controlled from a distance. Wetching the flying missile visually the operator strove to match it with the line of sight to the target. Missile control was carried out with a steering handle provided on the operator's panel.

Manual control practically made it impossible to increase missile velocity since otherwise the missile operator would fail to correct the flight path of a missile.

The next step was the building of ATGMs with semi-

automatic guidance systems. These missiles have higher fighting efficiency. The missile operator's work becomes much more simple: after taking aim and leunching a missile his only job is to keep a target crossheired throughout the whole period of missile controllable flight. In this case control signals are produced and conveyed to the missile automatically.

Measures were also taken to improve missile characteristics further on. The ATGMs belonging to the second generation can destroy largets at a range varying from 25 to 6,000 m. Missile velocity was substantially increased, making it possible to reduce the time of missile flight to a target three or fourfold compared to their predecessors.

The further development of antitank means has led to the advent of a third generation of ATGMs. Their designers concentrated on improving their hit probability when firing in adverse conditions (rain, fog, snowfall, smoke- or dust-filled atmosphere). These missiles are provided with active and semi-active homing heads and with target laser illumination.

According to many specialists, along with ATGMs tank attackers will also include tanks, field and antitank artillery, recoilless guns and other close combat antitank means in service of motorised infantry subunits.



ACTH being prepared for launching

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RIVER CROSSING OPERATION IN WW II DESCRIBED

Moscow SOVIET MILITARY REVIEW in English No 12, Dec 79 pp 40-42

[Article by Maj A. Sokolov: "An Assault Crossing"]

[Text]

An assault crossing of rivers is one of the most complicated types of combat actions. During the Great Patriotic War it was carried out by two methods: with a planned preparation and while on the move. The choice of the type of crossing depended on the given situation, character of the enemy defences and dispositions and possibilities of the division's units.

Negotiation of water barriers with a planned preparation was used in conditions of closa contact with the enemy on a water barrier or when crossing on the move was unsuccessful. When close contact with the enemy holding heavily reinforced positions on the opposite bank was of a prolonged character, an assault crossing was carried out after the enemy defences had been neutralised by artillery fire and air attacks. The troop ferrying was carried out under reliable cover of all kinds of fire. During the artillery and air preparation the advanced infantry subunits and combat engineers were usually the first to get across. They destroved the enemy weapon emplacements and made gaps through enemy obstacles in a riverside zone.

Moving after them on a wide frontage was the first echelon of an infantry division with a mission to capture an advantageous line, to consolidate on it, to organise an antitank defence and to secure the ferrying and deployment of the other units of the division on the opposite bank.

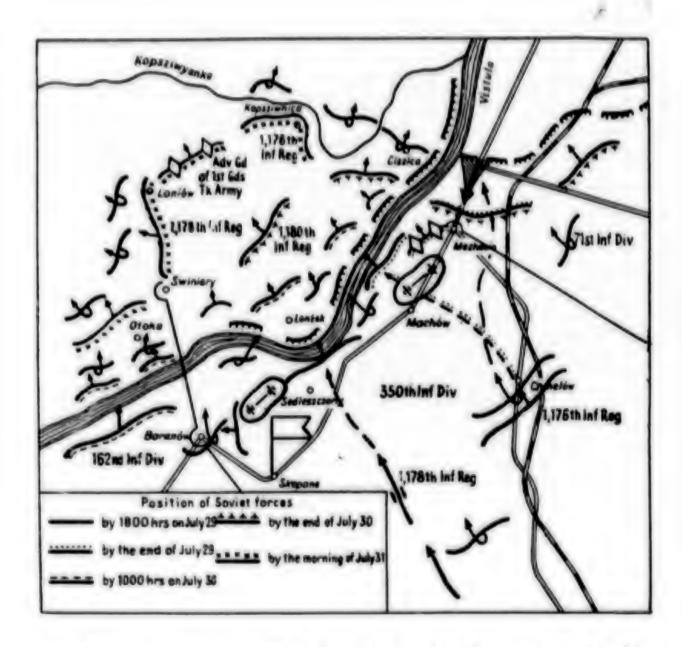
Artillery pieces and morters were ferried by echelons so that their main part could continuously give fire support to the assault crossing and actions on the opposite bank.

A motorised infantry division was given a section of crossing in the zone of its advance. Here several points were organised. Their number depended on the availability of fire neutralisation of the enemy, places advantageous for an assault crossing, and on provision of units with crossing means.

Preparation for crossing was carried out long before the beginning of combat actions. The reconnaissance obtained accurate and complete information on the strength and character of the enemy defences, and the peculiarities of the terrain and water barrier. To create the element of surprise, all necessary measures were taken to conceal the concentration of manpower and equipment, and regrouping of troops.

The case in point is an instructive experience of an assault crossing by the 98th Guards Infantry Division of the Svir River in June 1944 with a planned preparation. It was a very difficult water barrier. The river's width reached 300-400 m, and the depth 5-7 m. On the northern bank of the river the enemy organised a sustained and heavily fortified defence covered with engineer works and mine fields through its entire depth.

The 98th Guards Infantry Division (the 296th, 299th, and 302nd Guards Infantry Regiments) were ordered to cross the river on the Ladernoye Pole-Kanoma sector (4 km in frontage). A detailed plan was elaborated in the formation. This plan took into account the breakthrough of the well fortified enemy defences on the opposite bank. In the rear subunits and units trained to cross a water barrier. Simulta-



neously an additional reconnaissance of the enemy fire system, lay-out of his FEBA and weak sectors in his defences was carried out. Much attention was paid to the preparation of the assault positions and the approach routes for the artillery, tanks and amphibious vehicles. During the night the necessary crossing means were transferred to the river.

Af 0840 hrs on June 21, 1944, after a 30-minute air raid an artillery preparation began. Tanks and amphibious vehicles took up positions by the river bank. Dummy crossing carried out in the course of the artillery preparation

helped to detect the enemy weapon emplacements and to destroy them by direct fire guns.

At 1145 hrs the division's advanced subunits not waiting for the end of the artillery preparation started an assault crossing on the emphibious vehicles. In 5-10 minutes they reached the opposite bank and rushed into the enemy first trench. At 1212 hrs the main forces of the first echelon began an assault crossing. At first one infantry battalion from each regiment crossed the river. They captured a bridgehead and secured the crossing of the units of the first echelon. In 2-2.5 hrs the ferry crossing

began. This made it possible to quickly get across infantry regiments, regimental and part of the divisional artillery and also several tanks. By the evening of June 21 the entire division was on the opposite bank, its units were suc-

cessfully advancing.

Thus, in conditions of a long contact with the anemy, the success of an assault crossing depended to a considerable degree on the thorough preparation and skilful organisation of the crossing. The choice of the place for the assault crossing played a decisive role here. The assault crossing was carried out on a secfor which provided a good camouflage for the ferried units and had concealed approaches to the crossing. The reliable fire neutralisation of the enemy strong points located directly on the forward edge also contributed to the suc-COSS.

The necessity of echieving high rates of edvance in modern battle requires negotiating water barriers on the move. During the Great Patriotic War this method of assault crossing was used when pursuing the withdrawing enemy and when he had no deliberate defences on the water line or they were hastily ta-

ken up and with small forces.

The success of an assault crossing in this case was ensured by rapid and resolute actions of the division's units, particularly by its advanced guards and forward detachments, and by thoroughly organised cooperation between infantry and artillery and tanks. The units' commanders strove to approach the river before the enemy and to capture crossings and a bridgehead on the opposite bank. Taking into account the fact that the division's staff, as a rule, had not enough time, the planned table of the crossing was not drawn. All instructions concerning the crossing were given in fragmentary orders and separate combat instructions.

It was the advance detachments that usually began an assault crossing on a wide frontage as soon as they approached the river. They were followed by the main forces of an infantry division. Engineer units and crossing means attached to a division advanced simultaneously and additional ferrying points were

organised.

The peculiarities of the formations' actions in negotiating rivers on the move can be fraced on the example of the 350th Infantry Division which crossed the Vistule in July 1944.

During the offensive the division was assigned the following mission on July 27: pursuing the enemy to cross the Vistula on the move on the sector: Mechocin-Baranow (12 km in width), to capture a bridgehead and by the morning of July 31 to reach the line: Kopsziwnica-Loniow-

Swiniary (see Sketch).

The division commander decided to begin an assault crossing by the advanced battalions on the morning of July 29 and then under their cover to negotiate the Vistula with the main forces. The division, comprising 1,176th, 1,178th and 1,180th Infantry regiments, moved in regimental columns. The 1,178th Infantry Regiment acted in the advanced guard of the regimental columns. The 1,178th Infantry Regiment acted in the advanced guard of the main forces of the formation. The unit commanders were in the leading detachments while their staffs moved at the head of the regiments' main forces. The division commander moved with the advance regiment which allowed him to respond to the given situation in good time.

The division's battle formation made it possible to quickly deploy when meeting the enemy.

Because of strong enemy resistance the division's units could approach the Vistula only in the second half of July 29. The reconneissance men were the first to reach the western bank of the river. Then the leading detachment of the 1,178th Infantry Regiment forced the Vistula. On the opposite bank it captured a bridgehead and secured the crossing of the main forces of the regiment.

When night fell two ferry-boats available in the division and a 9-ton ferry captured from the enemy were lowered on the water. They were used to get the divisional artillery across.

The advanced subunits of the 1,176th Infantry Regiment approached the river only by the end of the day because of strong enemy resisfance in the area of Chmelów and Machów. On the night of July 29, one battalion managed to get across to the western bank and to capture a bridgehead, in the evening of July 29 the advance detachment of the 1st Guards Tank Army reached this area too and started an assault crossing at once.

Rapid actions of the advanced guard units in forcing the Vistula enabled them by the morning of July 30 to extend the bridgehead up to 4 km in frontage and 6 km in depth. This made if possible to ferry the entire 350th Division

during the day time,

The success of the forcing was achieved as a result of the thorough preparation of units and the quick pace of the offensive, which deprived the enemy of the possibility to take up defensive positions on the left bank of the Vistula in advance.

Party-political work carried out in the division had played an important role in forcing the water barrier. It was aimed, first of all, at explaining to the fighting men the necessity for the quick negotiation of the river, at developing in them fearlessness, purposefulness and staunchness in battles for extending and holding the bridgehead.

During the Great Patriotic War the Soviet forces accumulated a wealth of experience in forcing water barriers. This experience is undoubtedly of value in contemporary conditions when mobility and menoeuvrability of troops have sharply increased. Negotiation of water barriers on the move which makes it possible to maintain a high rate of advance and ensures a rapid capture of bridgeheads acquires perticularly great significance. Training troops to force water barriers skilfully is one of the most important tasks of a commander.

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GROUND FORCES

TROOP CONTROL IN WW II OFFENSIVE OPERATION

Moscow SOVIET MILITARY REVIEW in English No 12, Dec 79 pp 43-44

[Article by Col Z. Alexandrov (Aleksandrov), Cand. Sci. (History): "Control on an Offensive"]

[Text]

most important requirements for achieving vicin battle. The Great Patriotic War (1941-45) is a case in point.

The division commander's decision to give battle was the basis of troop control. Here he took into consideration the opinion of his assistants and staff officers. In the counteroffensive at Moscow in December 1941, desprie the fact that only one day was given to organise and prepare units of the 1st Guards Infantry Division for combat, the formation's Command managed to take and frame the decision quickly. In working out the decision, besides the commander, the division's commisser, the chief of staff and other officers of the division took part. The decision was brought in good time to the subordinates' notice. On the CP the division commander issued a verbal order and gave instructions on cooperation to the regimental commanders and commanders of reinforcing units. Missions essigned to the units were duplicated by an operations order given through a lisison officer. Telling into consideration the fact that the enemy defences had great gaps between strong points, the Command ordered that the offensive be launched from the move, without a preliminary taking up of the line of departure in close proximity to the enemy.

Accurate coordination of the offensive end firm confroit over units during battle enabled the units of the 1st Guards Infantry Division in cooperation with formations of the 13th Army and the 5th Cavalry Corps from 7 to 15 December, 1941, to break through the enemy defences, and to encircle and destroy the main forces of the 34th Army Corps of the next troops.

Taking a decision to break through the organised defences was carried out in a definite succession. Having received the combat order the division CO briefed his chief of staff, deputies and artillery commander. Simultaneously he obtained more species information

from them and other chiefs and commanders on all unfamiliar espects of the situation and listened to their suggestions. On the basis of this the CO took a preliminary decision on the map and informed the unit commanders on it. Then he carried out on-the-spot reconnaissance after which he took a final decision and announced it to the commanders. In the decision the division commander defined the order of the empoyment of the subordinate and attached units. His skill manifested itself, first of all, in his ability to correctly choose the direction of the main blow, to build up on it secretly and in a short time a grouping of manpower and equipment superior to that of the enemy forces.

In the 337th Infantry Division on Jenuary 26, 1944, the direction of the main blow was chosen on the right flank, in the sector of the 1131st Infantry Regiment, at the limiting point between the two enemy bettalions. Here the division commander concentrated all attached tanks and self-propelled artillery mounts and the bulk of the artillery. As a result, the regiment managed to obtain 2.5-fold superiority over the enemy in menpower, 4-fold superiority in artillery pieces and mortars and 10-fold superiority in tanks and self-propelled guns.

In the decisions of the division commanders, depending on the situation, battle order was determined as one- or two-echelon formation and lass frequently in three echelons. In our case the battle order of the 337th Infentry Division was one-echelon, which was explained by the relatively light enemy defences, the shortage of manpower and equipment and by the striving of the division CO to deliver a strong first blow.

Much attention was paid by the staff to planning combet actions. This consisted in drawing up the decision taken by the commander, in elaborating questions of cooperation, in using branches of the service and in planning Party-political work. In the staff this work bagan with the assignment of a combat mission and was carried out simultaneously with the organisation of combat actions and, as a rule, precaded the giving of orders and instructions to the troops. The working map of the commander was the main document when carrying out offensives during the war. It helped him assess the situation, take a decision, assign missions to the subordinate units and secure control over their fulfillment.

The experience of the war showed that no matter how well combat documents might be drawn up by the division staff, of decisive importance in the successful execution of the assigned mission was the thorough, painstaking work of the division's CO, unit and subunit commanders in organising cooperation. An infantry division was usually given up to two days for carrying if out, the regiment and battation commanders - not less than a day. Seginning with 1944 the division commanders organised cooperation to the depth of the day final mission. It was worked out most thoroughly to the depth of the initial mission of the division (3-5 km). Thus, in the shave mentioned 337th Inlentry Division the actions of all elements of battle formation and arms of the service were well coordinated. In particular, the actions of infantry, artillery and tanks were closely coordinated. Officers from the artillery subunits carried out target designation for their batteries from the commenders' tanks. Engineer subunits organised concealed approaches to the enemy FEBA, made gaps in his mine fields and designated them well. Subunits of chemical defence got ready for smoke screening the zone of edvance. To maintain steady coordination the observation posts of the division CO and commanders of the attached and supporting units were situated in one place. A special fielson was also organised.

Skillul organisation of the control posts was of paramount importance for firm and flexible command in battle. There were two posts in the division: command post (CP) and rear command post. An observation point (OP) was usually detailed from among the CP's personnel. From the OP the commanding officer exercised troop control in the course of battle. During the war control points constantly kept close to the troops' battle formations.

A great role was played by such aspects of froop control as the ebility of the commenders and staff officers to skilfully and quickly respond to the sudden and unexpected changes in the situation, not to lose a sense of reality in assessing the events and to be an example of self-control and courage to the subordinates. The importance of these qualities can be demonstrated by the following example. During the offensive in Byelorussia in the winter of 1944, units of the 12th Guards Infantry Division encountered fierce resistance by the enemy defending advantageous positions. The manpower and equipment of the second echelon had been expended and essentially the offensive was frustrated. The division commender had at his disposal only a separate skill

battalion which was to be used to deliver blows of the enemy flanks and his rear.

Having discussed the situation with his chief of stall and deputies, the division CO took a decision to commit the separate ski battalion to action. On the evening of January 11, the battelion CO Major M. Burshtyn was assigned the mission: on the night of January 12, by a surprise attack without an artillery barrage, using the entire fire power of the small arms, break through the enemy defences in the centre of the division's some of attack. The commanders of the 29th and 32nd Guards Regiments of whose limiting points the ski battelion was committed to action, were instructed to cover its flanks with machine-gun fire and after the breakthrough of the forward edge to pass over to the offensive immediately. The next day reconnaissance-on-the-spot was carried out before dawn, the mission specified on the ground and cooperation organised.

At 2300 hrs on January 12, in pitch derkness the ski bettalion began the attack. What happened instantly stunned the nazis. The infantry companies opened an intensive fire with submachine guns and machine guns. Pertially loaded with fracer bullets they created an unusually dense, solid zone of fire which was easily visible for the nazis. The utterly surprised enemy abandoned his positions and ren into a lorest.

Having received by radio the information on this from Major M. Burshtyn, the division CO ordered all infentry regiments immediately to assume the offensive to make use of the ski battallon's success in good time. By 0400 hrs on February 13, subunits of the ski battallon, having advanced forward up to 8 km, approached the town of Kalinkovichi, after securing the offensive of the division's main forces. Thus the creative decision of the commender, efficient organisation of commitment to action of the division's reserve, and firm troop control during the offensive by night ensured the execution of the combat mission.

On the whole, during the Great Patriotic War, control over the division's units represented a constant elternation of the estimation of the situation with the decision taken and the assignment of new and specified combat missions. Decisions taken by the division commanders during the combat operations provided the manosuvre with manpower and equipment, broad employment of wide envelopments and outflanking movements, and delivery of blows at the enemy's flank and rear.

The Great Patriotic War gave much valuable and instructive experience in troop control during the offensive. It was ensured by the maximum possible approach of the CPs and OPs of the divisions to the forces. Saturation of divisions with various communication means made troop control in battle more stable and flexible. Having stood the test of the war many problems of the organization of control and methods of the work of the commenders and staffs have not lost their actuality at the present time.

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GROUND FORCES

FORMS OF MANEUVERING I' OMBAT DISCUSSED

Moscow SOVIET MILITARY REVIEW in English No 3, Mar 81 pp 13-15

[Article by Lt Gen V. Reznichenko, D. Sc. (Military), Professor: "Manoeuvering Skill"]

[Text] A commander's skill is proved by his ability to create favourable conditions for carrying out combat actions in any situation. This can be achieved by rapid movement of subunits, redirection of forces and weapons from one line of advance to another to press home an attack or repulse enemy attacks and counterattacks. Manoeuvre with forces, weapons and fire contributes considerably to achieving success.

ESSENCE OF MANDEUVRE

An outstanding role in elaborating methods of manoeuvring and creating the tactics of manoeuvring in general belongs to Soviet military art. Battle experience shows that manoeuvre is always an inalienable part of combat. Without manoeuvre it is impossible to concentrate the necessary manpower and equipment quickly on the main line of advance, to shift the effort to a new direction, to deliver a blow at the enemy flank or rear or to encircle and destroy him.

I remember an episode which took place during the counteroffensive of the Soviet Army at Stalingrad in the autumn of 1942. The 65th Army met with stubborn resistance of the nazi forces on a previously organised defence line. In order to break down the enemy resistance the army commander decided to send the 91st Separate Tank Brigade against the rear of the enemy grouping.

After a night manoeuvre aside from the breakthrough sector, the brigade broke through the FEBA by a surprise attack. Rapidly advancing it approached. Vertyachy and Peskovatka farms without the enemy knowing, destroyed the headquarters of the enemy formations and captured two bridges faunched across the Don. A daring manoeuvre of the tank brigade forced the enemy to start withdrawing.

Frequently manoeuvre was the important factor in defeating superior enemy forces. For example, Major Fedoseyev's Ski Bettalion of the B3rd Infentry Division of the Karelian Front routed twice superior reconnaissance detachment of the SS 6th Infantry Division in a battle near the Nizhneye Leke.

Experience of manoeuvre actions during the war has not lost its significance today, it remains a source from which the commanders draw and creatively apply tactical methods used on the battlefields.

With the development of weapons the significance of memoeuvre also increases. The improvement of weapons, complete motorisation of forces, their increased mobility have redically changed the character of modern battle. Long drawn-out, measured actions of forces have become entirely a thing of the past. They have been replaced by dynamic combat actions, their spetial scope has increased. Movements, marches, blows on the move and menoeuvre on the battlefield have become the chief forms of activity in battle.

The conditions for carrying out manoeuvre have changed too. If formerly manoeuvre ections began, as a rule, after the main defence zone had been broken through, it is now possible by delivering powerful blows, to create a breach in the enemy defences through which a manueuvre can immediately be performed to strike at the flank and rear of the defending subunits.

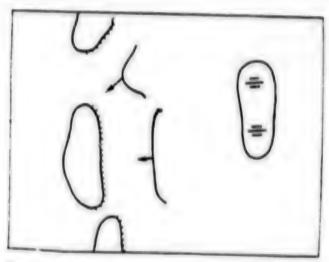
At the same time speed of manoeuvre on the battlefield and over it has increased and possibilities have appeared to use the results of fire quickly, to shift afforts to the depth and from one direction to another, to intensify efforts where the greatest success has been achieved and to affack the arrany on the move.

Thus, the material hasis of warfare and its character have changed the very essures of manoeuvre—giving it a new content. Proceeding from this, one understands by the term manoeuvre today the switching of blows and fire and organised displacements of troops to create the most favorable grouping of triandly forces and equipment for successful fulfillment of the assigned mission. Such a definition reflects both the assance of contemporary manoeuvre and its general purpose.

PURPOSE OF MANOEUVRE

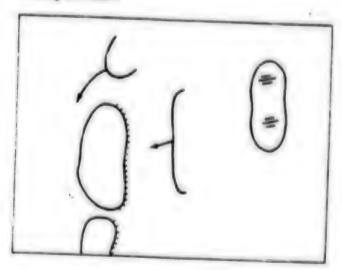
Manoeuvre can serve different purposes. Depending on conditions and concrete combet missions, manoeuvre can be used to ensure effective use of the results of fire, to increase efforts on the main line of edvance or shift them to new ones, to bypass contamination zones, areas of destructions and fires, to fight approaching enemy reserves, withdraw from enemy blows, replace subunits and units which have suffered great losses and lost their fighting efficiency, etc.

Each of these purposes is achieved by various ways. The use of advanced detachments and tactical airborne

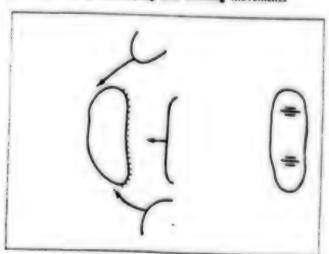


Envelopment

Turning movement



Combination of enveloping and turning movements



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FORMS OF MARRIEUVES

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The main difference between the forms of manoeuvre up till now is that envelopment is carried and in tire and tectical comparation with the forces acting from the front, while a forming movement is effected only in tectical co-operation with them.

to commencery conditions as a result of the equipment of forces with missile tourchers with a range of scores of bitimetres and the concederable increase in the range of camen and restel entitlery, such a criterion as available. Thy or other as of fire comperation should be constantly taken into consideration. When carrying out an enveloping or turning increment the measurements submits can and must maintain not only tactical but also lire comperation with the forces advancing from the front. The only difference may be by what the weapons this measurements is decrease.

An excercement is correct out within range of tank and entitled fire. It is therefore covered by fire of these and offer weapons taking a corresponding range. A turning revenuent is correct out beyond the range of tank and entitled weapons and can be covered only by long-range fire weapons.

But the main criteria in driving forms of manuscrip are not see ability or otherwise of fire respection but the purpose and depth of the manuscrip and the direction of the cubraquent blow at the arrany the department is a manuscrip, carried on by subunits for the purpose of taking as advantageous pastion for striking of the enemy flank, while a furning movement is a desper manuscrip for a blow of the enemy rear (see Figs).

This question is not only theoretical filers is a precitival reasol for a differentiated experiently to preparing and correctly out annaloging and running they ensure, in particular for organising their fire outport, this being the most important condition of outputs of the manosures, for securing conversation of subunits and units carrying out the enveloping or turning thesement with the forces advancing from the tower.

A cutert of considerable interest is also the theoretical elaboration of both questions as support of a manageure such time and torces, particularly making forces, in the time types of combat artison, increasing manageuring capabilities of subscutt and units, improving the methods of training troops to carry out frames actions, resolvess for a time manageurie with their and equipment.

the congruence of its recessary to press that a deflad manecessary is possible only provided one has sound theoretice transmedge and displays a previous approach to fulfilling precises messons. Modern tested theory is reflected force of all to the manuals. Therefore a firm researce, the abitry is approximate understanding of their essence, the abitry is approximate interest creatively with due regard for the incorrect outsides, the possibilities of the foerably and enemy forces, their factors—these and other detrained concerning the professional framing of all commontions are the major criteria for pulging of their skill and capabilities to create conditions for carrying out comball actions in any original.

LASTITUTE "Soviet Military Review," No 3, 1981

GROUND FORCES

PURSUIT OPERATIONS IN WORLD WAR II DESCRIBED

Moscow SOVIET MILITARY REVIEW in English No 3, Har 81 pp 38-40

[Article by Col Z. Shutov, Cand. Sc. (Bistory): "Pursuit"]

[Text] The article tells of the experience acquired by the Soviet forces in organising and carrying out pursuit of the enemy during the Great Patriotic War.

On July 3, 1964 during the Byelorussian operation, the forward formations of the 3rd and 1st Byelorussian fronts linked up on the south-western outskirts of Minsk, closing the ring round the 4th and independent formations of the 7th rest ermies. The encirclement of the exemy grouping, numbering over 100,000, was certiad out on the 11th day of the operation at a distance of 200 km from his FEBA. Such a test was possible mainly owing to skillul pursuit of the retreating enemy. In this operation the Soviet lorces demonstrated their ability to carry out a frontal and parallel pursuit on tectical, operative and strategic scales.

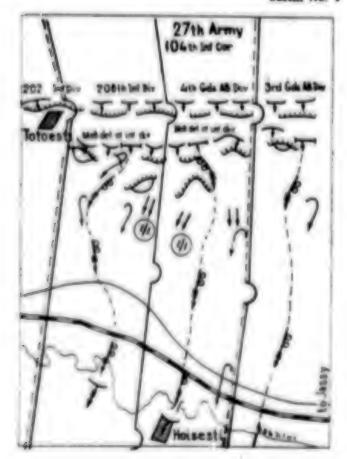
Pursuit of a retreating enemy took place in the most diverse conditions. In 1942-43 and more particularly in 1944-45, operational pursuit was carried out after the forces had negotiated the antire factical depth and even the army detence zone. This happened as a rule on the 2nd or 3rd day of the operation at a depth of 12-30 km.

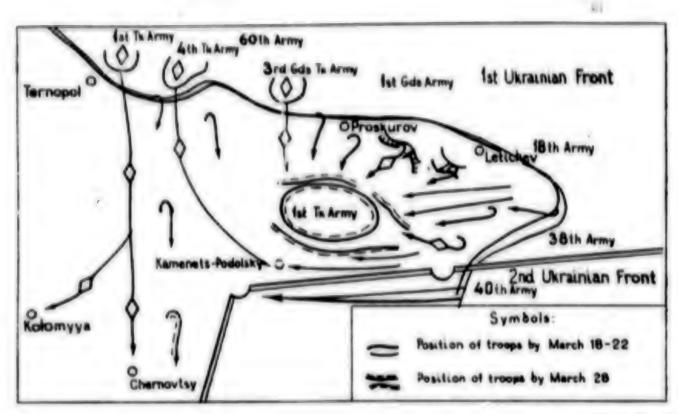
Timely detection of the beginning of an anamy withdrawal promoted speed in passing over to pursuit and success in carrying if out. By the way, it was not easy for recommissence to determine the moment of withdrawal. As a rule, the enemy tried to withdraw during the rught or in rain, snew or log. Withdrawal of the main forces was covered by rear quartit detailed from each division. Frequently rear guards consisted of motorised and tent subunits capable of launching strong counterellacks and disangaging from the pursuits enemy. Prowever, itereotyped eclions on the part of the enemy were frequent, and this helped the Soviet reconnaissance to determine quite accurately the beginning of a withdrawal. As a rule, that moment was preceded by massed enemy artitlery berreges, intensified machine-gun and rifle fire, and illumination of the terrain with fiares. Often the enemy undertook countereffects with up to a bettellon (regiment) of infantry and tanks in the zone of a division beginning to withdraw. He did this to give the impression that his defence system was stable and that he was even passing over to the offensive. In some cases the enemy tried to withdraw his main forces unnoticed, without any attempt at diverting effection.

Once they had detected an enemy withdrawal, the Soviet forces would switch over to pursuit in the same battle formation as they had been in during the previous oftensive. Usually after the breakthrough of the PEBA mobile groups from combined arms armies (fronts) consisting of tank formations (large units) operated in front of the infantry formations. Possessing higher mobility, greater striking and fire power than the other elements of the operational formation, they were able to pursue the enemy on their own for a long time in the operational and often in the strategical depth.

Tank armies carried out pursuit in one- or two-achaies formation Tank (mechanismi) corps operated geneally in two-achalon formation with tank brigades in the

Sketch No. 5





Sketch No. 2

first echalon. By withdrawing the first echalon to the second and vice versa the Soviet Command was able to carry out continuous pursuit. Advanced detechments operated in front of the main forces. Under their protection the main forces of a tank (mechanised) corps usually formed up into columns and operated on lines of advance parallel to the enemy withdrawal.

Tank forces played a leading part in pursuit, but the bulk of the pursuing force consisted of infantry formations. They operated in the tactical depth of the enemy defences. There pursuit was usually undertaken effer the breakthrough of the FEBA for the purpose of capturing the second zone on the move.

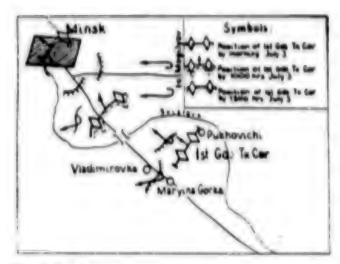
Pursuit could be organised in various situations. The main measures were envisaged as early as the planning of the operation. But more concrete organisation, assigning the main and additional missions, creating a grouping of men and equipment, sending out advanced detachments and specifying questions of cooperation were all done during the pursuit.

The method and volume of work of the commander and his staff depended on the character of the enemy actions, the state of own units and also on the time available.

Here, for instance, is how the 227th Inlantry Division prepared the pursuit in the operation to liberate the Crimea in April 1944. Main attention in preparing the command personnel of the division which was in the S1st Army reserve, was paid to working out questions of unit and subunit control when breaking through the intermediate lines and during pursuit. The divisional staff carried out a training assembly of commenders of regiments, battalions, companies and attached reinforcement units. The officers studied in detail on the map the terrain in the zone of the forthcoming combat operations and character of the intermediate lines on which the enemy could organise a defence. All possible variants of combat actions were played out and exercises on troop control security measures were carried out. Thorough preparation promoted to a considerable extent the successful fulfilment of combat missions by units of the divirion during pursuit.

Success of pursuit depended to a considerable extent on the actions of the advence detechments. Such detachments acting ahead of the main forces at a distance of 30-50 km captured on the move bridges, river crossings, road junctions and serodromes, and held them until the arrival of the main forces.

Thus, on August 20, 1944 during the Jassy-Kishinev operation after the forces of the 27th Army of the 2nd Ukrainian Front broke through the first position, infantry divisions committed to action reserve battalions prepared for action as advance detachments (see Sketch No. 1). Mounted on mechanical transport, jointly with the tanks in direct support, they bypassed the enemy strong points and rapidly reached the Bakhlui River, forced if on the move and captured a bridge. Having seized centres of resistance in the second zone, they created conditions for a breakthrough of the entire enemy tactical defence zone on the move. This success was due to the edvanced detachments fore-



Sketch No. 3

stalling in reaching the second zone not only the enemy subunits withdrawing from the first zone, but also his operational reserves.

When pursuing the enemy in the operational depth the infentry divisions broke into columns and advenced in route formation. When necessary, some of the first echelon forces deployed to negotiate intermediate lines, to beat off enemy counterattacks or to destroy enemy groupings left in the rear of the front or mobile army group. As a rule, infentry divisions were reinforced with artillery, mortars and tanks. This allowed them to destroy strong enemy rear guards and to carry out active manoeuvre operations in wide zones (up to 10-12 km) aften without close lateral contact with their neighbours.

Each division of the first echelon sent out an edvence detachment usually comprising a reinforced infantry battation. Such a battation was mounted on mechanical transport and had an antitank artillery battery, a regimental entitlery battery (76-mm guns), a self-propelled artillery battery and a company of combat engineers. When advance detachments had to surmount defensive lines during pursuit, their strength was increased.

Thus, in the 28th Guards Inlantry Corps (Vistula-Oder operation, January-February 1945) divisions' edvance detachments included an infentry regiment, an artillary battation, a self-propelled artillary regiment and a company of combat engineers. Acting in such a composition, advance detachments could operate at a distance of up to 10-15 km from the main forces.

Experience showed that to be most effective pursuit must be carried out uninterruptedly. In the Byelorussian operation, for example, pursuit was carried out for 16-18 hours a day. At night the advance detechments and the main forces rested and replenished fuel and ammunition supplies. Meanwhile specially organised detachments car-

ried out combat operations, in the morning they were replaced by the advance detachments.

Manneuvre with forces and weapons played a significant role. The zones in which the fronts and armies carried out pursuit (from 100 to 400 km and from 20 to 100 km respectively) made it possible to undertake not only frontal but also parallel pursuit of the enemy. The greatest effect was achieved by skilful combination of these two forms of pursuit. Parallel pursuit alone only created a threat to the flanks of the withdrawing enemy and his lines of communication in the rear. Lock of frontal pursuit allowed the enemy to manneuvre in order to occupy defensive positions on the withdrawal routes.

The Proskurov-Chernovisy operation (Asarch 1944) carried out by the forces of the 1st Ukrainian Front in cooperation with the 2nd Ukrainian Front (see Skatch 140. 2) is an example of successful frontal and parallel pursuit. The Soviet forces carrying it out to a depth of up to 200 km, succeeded in encircling eleven intentry, ten tank, one motorised and one ertillery division.

The Soviet units acted repidly and deringly. Tank and mechanised subunits courageously penetrated into the enemy rear, sowing panic among the enemy troops and disorganising his withdrawal.

Similar actions could be observed in many other operations. For instance, during the Byelorussian operation the 1st Guards Tank Corps, acting in the operational depth of the enemy detences, started pursuing the enemy in the direction of Minsk in the morning of July 3 (see Sketch No. 3). It routed the enemy rear guards, captured a bridge across the Svisloch and seized the junction of the roads connecting Mogilyav and Bobruisk with Minsk. At 1300 hrs the corps broke through to Minsk from the south. During five hours of pursuit with fighting the tanks covered 80 km Such a high rate of advance was achieved in perticular owing to uninterrupted and precise control of the battle by the commanders and staffs, the timely capture of advantageous lines and crossings and continuous reconnaissance on a wide front.

Successful pursuit of the enemy was also achieved by the efficient cooperation of advanced detectments and mobile groups with the eviation. It carried out continuous air reconnaissance and prevented the enemy from withdrawing in order and taking up new defensive positions. Combat aircraft impeded the moving up of enemy operational reserves from the depth. Protection of the pursuing formations from enemy air attacks and delivery of cargoes to mobile groups and edvance detechments were also of paramount significance.

The major objectives for air strikes when the enemy was withdrawing were his columns on the roads, troop concentrations in defiles and at crossings, troop trains in motion and at stations. On some occasions air attacks were delivered at bridges and crossings along the routes of the withdrawing enemy forces.

Today the ability to carry out pursuit rem of the major demands made on commenders and staff.

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AIR DEFENSE FORCES

RADAR OPERATOR TRAINING DESCRIBED

Moscow SOVIET MILITARY PEVIEW in English No 3, Mar 81 pp 20-21 [Article by Engr-Col A. Polyakov: "Accuracy of Information"]

nformation on the air enemy, besides being exhaustive and timely, must be eccurate in order to allow the commander to estimate the air situation properly, take a battle decision, give the missilemen and fighter plane crews the necessary directions and ensure their cooperation. It is still more necessary for the information to be accurate when one has to deal with a great number of targets and when the enemy creates a diversion or uses jamming.

Accuracy of information depends, in the first place, on the capabilities of radar reconnaissance facilities. How over, this is also largely determined by the professional skill and tectical competence of radar operators which, in turn, depends on the training standard of all specialists, first and foremost of radar operators and radar chiefs. Of great importance is concerted actions of crew members and their skillul control by commanders based on deep technical knowledge and proficiency in using combat equipment in different conditions.

From the very beginning of their training radar operators are explained the importance of determining target coordinates accurately. Experienced specialists organise special training in which the "enemy" uses various methods of penetrating the air defences and demonstrate to the trainies how they must act in different combat conditions and

show them visually capabilities of their combat

In the initial period of training it is advisable to use training facilities. For instance, it is a good practice to have a set of photographs of reder screens with target blips on them. One of them is shown for a while by means of an oidiescope and a radar operator begins to plot the coordinates observing the established rule, (from the screen centre and from the main directions). Special simulators are used to enable the trainees to perfect their skills.

Rader operators' training is devoted mainly to practical training on the operating equipment. In order to make the training more effective the commanders think over the dynamics of each lesson and the development of the situation, trying to make it more instructive. Plans for such training are worked out by experienced methodologists and officer instructors. Analysing previous training, they give recommendations on how to eliminate the mistakes made by the trainees. In their work they proceed from the experience eccumulated, the operators' training standards and the smoothness of crews' work.

Training practice is based on gradual complication of the missions assigned. This is necessary because a young radar operator is liable to make mistakes in a difficult situation if he has not had enough practice. This would adversally affect his psychological readiness to fulfil his mission. As a result, the so-called uncertainty barrier may arise.

An indispensable condition to be observed when elaborating training plans is to bring them as close as possible to real combat conditions. Working up variants of military operations and their main components promotes this. The variants envisage as a rule redar operators working in various air situations as regards the forces and equipment used by the likely "enemy," his tactics and also the specifics of the position occupied by the target detection and tracking subunit and the capabilities of its equipment.

To obtain accurate target coordinates, it is necessary for all assemblies and units of the radar station to be funed properly. At the very beginning of training the radar operators must be taught to remember the specifics and configurations of the local features echo. During training they must develop their ability to perform without a hitch all the necessary adjustment, switching and funing operations. They also must be taught how to manipulate the controls "by touch" since this will help them not to distract their attention from determining the coordinates when performing funing or some other operation.

Experienced instructors use the following method for training rader operators to cope with their mission when target blips are weak. First rader screens imitate bright and stable target blips and then increase their number and weaken them until some of them even disappear for a while. The trainees also master the technique of selecting scanning brightness properly and shifting indicator tuning controls so as to provide the most favourable conditions for plotting the coordinates. High-class specialists can supply accurate characteristics. Practice shows that if rader operators can work perfectly on a simulator they will be successful in plotting the coordinates of actual targets.

Target characteristics given by the radar operator must be appraised objectively from the point of view or precision. Only such an approach will give a true picture of his work, making it possible to reveal his defects and how to eliminate them.

The radar chief must check the accuracy of the information received from radar operators. He must thoroughly analyse their actions and the sequence of their operations and also be ready to give them the necessary practical help or advice.

To check the accuracy of target characteristics supplied by radar operators, wide use is made of a photographic record and of simultaneous operation of two teams spotting and tracking the same targets. In such cases experienced operators usually work in pairs with young ones. After the training is over, the results thus obtained are compared, photographic records are studied and the accuracy of radar information supplied by each operator is checked. The causes of erroneous coordinates which may be presented by some trainees are thoroughly analysed, this helping to make timely corrections to the training process and to use training time more effectively.

The work of the CP personnel is exceptionally important in supplying the subunits with accurate information. It is there that the most reliable data is selected and rational use of radar equipment is organised. The commander sets each radar crew a task specifying the most reliable sources of information. He analyses the work of his subordinates by using photographic records, takes measures to remove the faults detected and to ensure target tracking in a suddenly changing situation. All this requires the CP commander and his officers to know exactly the capabilities of their radar stations and to use them skilfully in order to ab tain target data.

As we know, a single radar crew may sometimes be unable to supply accurate target data because the intensity of the echoed signal depends on the relative positions of the target and identification aids, the size of the reflecting surface, the conditions of magnetic energy propagation and so on. Therefore the commander must know for sure which radar station supplies the information, how it is positioned relative to the target and at what distance. This will help the commander to select the most exhaustive and accurate information.

A high tactical training level of all specialists, especially those of officer rank, substantially contributes to obtaining accurate information. Radar subunit commanders' ability to estimate the air sifuation quickly, to analyse it competently and to foresee the likely changes of target attitude is developed mainly on the basis of extending their knowledge and improving their practical skills. And practical training is the main method for raising specialists' tactical and professional skills. Officers undergo this fraining according to a special plan. Being trained in a complicated and instructive situation the officers polish up their skills in target track reference, determine the difference in target track data supplied by various radar stations and improve their skill in troop control.

To make radar information more precise is a most important task facing radar subunits. Therefore they continuously search for new ways and means of getting the most out of their combat equipment and show tenacity in mastering advanced techniques for conducting radar reconnaissance.

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SONAR OPERATOR TRAINING ON AN ASW SHIP

Moscow SOVIET MILITARY REVIEW in English No 12, Dec 79 p 25

[Article by Engr-Capt 1st Rank A. Galkin, Cand. Sci. (Navy): "A Ship's Underwater Battery Crew"]

[Text]

The underwater battery crew of a submarine-hunting ship forms the basis of its fighting efficiency. Such a crew actually controls the ship when searching for and destroying an underwater termal.

for and destroying an underwater target.

The ship's CO directs the underwater battery crew's

efforts in battle.

In his work he is greatly assisted by his executive efficer who provides cooperation between the action stations supplying the CO with target data after they have been processed Generalising such data the executive officer reports the specifics of target manoeuvring and its motion characteristics to the CO.

ing and its motion characteristics to the CO.

The fire control officer is to display the highest activity compared to the other members of the underwater battery crew. Operating together with the radio officer and the nevigator he performs all tactical calculations required by the CO. As soon as the underwater target is detected, the fire control officer switches over to supervise the operation of the central fire common staffion. He also takes part in the preparation of the anti-submarine weapons for use and reports firing data to a CO.

e CO. The tasks that involve determining target motion characteristics and the specifics of its manageures are usually carried out by the ship's navigator and the com-

bet information centre.

To carry out search operations identify a contact and also to pursue and destroy an underwater target, the concerted action of several action stations and different specialists is necessary. Success in handling these tasks can be gained provided each specialist possesses a

high training standard

Each momber of the underwater battery craw must have a sound knowledge of his action station. Particular ettention should be paid to the training of a sonarmen because the destruction of an underwater target largely depends on his ability to detect if in good time, to identify and maintain a contact and to supply the navigator and the action stations with the information which would enable them to determine target motion characteristics (course, speed, depth)

With the increase of soner range, target identification in antisubmarine warfare has become a problem requir-

ing much effort in order to be solved. Sometimes it is really not so easy to distinguish between the actual tergel and some foreign object or a school of fish. Therefore, in training sonermen particular importance is attached to their ability to identify a contact exactly as a result of comparing what is most characteristic of different underwater objects and of a submarine.

For instance, if contact identification is incorrect, this

For instance, if contact identification is incorrect, this may cause the ship's CO to use weepons egainst a false target (a school of fish, underwater rock, wreck) or, on the contract to take a submerize for a false target

the contrary, to take a submarine for a false target.

The underwater battery crew must also do their best to reduce target identification time as much as possible. To attain this, all the action stations of the crew act in concert.

Sonarmen acquire practical skills at their training stations, which are abundantly provided with training facilities, including tape recordings reproducing echo signals, noises of atomic submerines and surface ships and fish noise in different hydrological conditions. The modern equipment of classrooms makes it possible to simulate situations closely resembling real ones which are usually experienced by the underwater battery craw at high seas. Those of the sonarmen and the other craw members who are not to participate directly in a training lesson are usually ordered to the demonstration room to watch the other trainess at work and to analyse their actions.

Sonarmen are trained simultaneously with the crews of the other action stations which also perticipate in contact identification and in the preparation and use of antisubmarine weapons. These joint training sessions are usually supervised by an executive officer who checks to see at each training stage that the trainees strictly observe the specified priority of operations, make perfect reports, supply accurate data and, in general contents of the contents o

neral, perform all training elements.

After they have acquired the initial skills in discharging their duties the underwater bettery crew begin to patish up their teamwork. The crew's concerted actions are aimed at providing contact and cooperation between the action stations and, in the first place, between the ship's CO, on the one hand, and the sonarman and the

other action stations, on the other. The trainees master the technique of reporting, paying particular attention to its priority and also practise giving commands and orders. The complexity of the missions is gradually increased.

During the subsequent training period the crewmen practise restoring the lost contact and maintaining it when they have to change a position of submarine tracking. They also work up the technique of tracking a manoeuvring submarine, taking up positions for firing different antisubmarine weapons and, finally, how to track and attack a manoeuvring submarine when it is using sonar countermeasures and deception.

A well-organised post-fraining critique plays a very important role in the training of the underwater bettery crew. At the beginning of a critique the ship's CO usually hears the sonarman, the navigator and the lire control officer reporting on their actions when searching, tracking and attacking the submerine. Illustrating his remarks by a series of manoeuvres performed both by the ship and the target he thoroughly analyses and

by the ship and the target he thoroughly analyses and assesses the activities of each crewman.

Competitions for the title of the best specialist emong sonarmen, miners and other crewmen are being organised on an increasingly large scale in the Navy today Whenever on a cruise, a ship has to pass through the training range which makes it possible for its underwater battery crew to train daily.

The main principle followed by a ship's CO and his feaching staff in training officers and ratings both at base and at sea is to teach them what is needed during a war. Only when this principle is used as a basis can the underwater battery crew achieve the required teamwork and close cooperation.

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NAVAL FORCES

DAMAGE CONTROL TRAINING DESCRIBED

Moscow SOVIET MILITARY REVIEW in English No 3, Mar 81 pp 24-25

[Article by Capt 1st Rank M. Tsiporukha: "Damage Simulation on a Ship"]

[Text]

Training in damage control is an integral part of the general training of a ship's complement. It includes study of the ship's design and its damage control facilities, acquisition of initial practical skills, practice in action station, co-smand post and damage control party procedures during exercises.

To approximate the situation as much as possible to real battle wide use is made of damage simulation facilities during damage control exercises. Simulating fires, penetration of outside water into compartments, and damage to weapons and equipment helps to train the man psychologically for confident action in a nevel encounter.

It is not always possible to use all simulation facilities on a ship, so combat training stations are provided on shore. They have compartments similar to those on a ship and in which fires, flooding through a "hole" in the hull or a "damaged" pipeline can be simulated.

The majority of damage control drills and exercises take place on the ship itself. To simulate hull damage, use is made of special penals comprising a steel plate, a flooding chamber and a mounting frame. Each panel is provided with a set of detachable plates with various holes and cracks. Water is supplied through a fire hose connected to a special pipe in the flooding chamber, from which the water is drained by enother pipe when pressure in the panel increases as the hole is gradually sealed.

Pipeline damage is simulated by means of a pipe one and of which is welded up and the other is joined to a fire hose. The pipe has holes and crecks of different sizes and can be fastened on suspensions at different places.

The above mentioned simulation facilities are arranged in compartments where inflowing water cannot cause a failure of the equipment, e.g. washrooms, shower-rooms, holds in engine and boiler rooms, or in cofferdams and ejector recesses. It is most important that the places where simulation facilities are installed are provided with drainage or overflow ejectors.

Special attention is paid to water control in compartments. The locking device to shut off water supply to the panel is checked in good time and steps are taken to keep water away from the electrical equipment and fuel and oil tanks.

Training in extinguishing big fires usually takes place on

shore, on special fire ranges. To simulate fire on a ship, use is made of trays with the edges bent up 100-150 mm installed on supports. A layer of oakum or waste soaked in waste oil or diesel fuel is put on the tray to be ignited. To enhance the effect of fire, smoke pots may be placed near the tray.

These facilities are arranged on the upper deck with wind direction and the ship's course duly taken into account. If the deck is a wooden one, an asbestos mat should be placed under the tray.

To simulate a fire inside the ship, use is made of a "fire starter" provided with an electric primer. When the power is turned on, a paraffin-saturated wood-fibre board placed in a metal case is set on fire. Burning goes on for about 15 min.

Fires on a ship may be simulated only in places stipulated in the formation commander's order. It is forbidden to use smoke pots or naked flames when simulating fire at the entrance to the ammunition room, near the ammunition room mushroom ventilators, close to ready service lockers, fuel and oil tanks, their air pipes, in paint, boatswain's and provision stores, and also near the only exit from a room.

Fire-fighting equipment, including at least 1-2 fire hoses and 3-5 fire extinguishers, is concentrated on the training sites. It is available to the person re-possible for simulation and may be used only with his permission.

Facilities for ventilation of compartments intended to be smoke screened are checked in good time to enable them to be used in training to put out the "Vire source." Portable fans are also prepared in advance.

To simulate explosions, special smoke-puff charges are used. Some of them produce both sound and luminous effects whereas others only a sound effect. Bright flashing smoke-puff charges are painted red and bear the inscription: "Sound, flash, compartment, deck" or "Sound, flash. Only upper deck." This means that the former may be used both on the upper deck and inside the ship, the latter only on the upper deck. Smoke-puff charges producing a sound effect are also painted in different colours and bear instructions for use.

It should be borne in mind that it is dangerous to work near smoke-puff charges ready for use.

A special device mounted on a stand is used to simulate burning wiring. A cable wrapped in waste soaked in kerosene is placed with a smoke mixture in a canvas hose. The device terminals are connected to an arc-welding machine. Energising the device lightes the waste. The device works for 1.5-2 min.

In practising actions for putting out the burning wiring, carbon-dioxide fire extinguishers are used. Use of water and of foam fire extinguishers is allowed only after the simulation facilities have been disconnected from the power source.

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LENIR MILLIARY FOR STREAK ACADEMY'S GOTH ANNIVERSARY

Corres SCRIET MILITARY MEVIEW in English No 12, Dec 79 pp 5-8

(Article by Li Con V. Panilow) "A Political Personn I Training Centre"]

[Test] In December 1979, the Orders of Lenin, the October benefit Lon and The Red Ranner Military-Political Academy named after Lenin will mark its 60th anniversary. Lieutenant-General V. Danilov, Chief of the Academy's Political impartment, Hero of the Boviet Union, tells about its history and the present day organization of training and actentific research work.

Macrow 14 Bouraya fadovaya Street is the address of the Lanin Millary Political Academy 11 g in vary establishment from leading partical warriers, military instructors and increasing of high qualification from among the officers of the USSA Armed Forces. The Academy 1 place of centre of scientific research warrier in the field of social sciences and a number of military subjects.

When reseting a socialist army of a new trace V. I can n and the Communist Perry track into consideration the fact that the young field Army needed political workers who in close rentact with the comments would be engaged first and foremost, in military training and political education, in organising cultural and ordered and seriors, and a strengthyring military discipline.

Lots in 1919, on the basis of agitators countries in Pairingred (now Leningred) a Teachers' (in tary-co-lines) institute of the Red Army named after Tolmachyov' was opened On May 18, 1925. The institute was transformed nic the Military-Political Academy. The Academy was excepted the mission of training political winverse with a higher education for the Armed Forces.

A cers on of the Party Central Committee

"On Command and Political Personnel of the Worsers' and Peasants' Red Army Taken in Febr. ary 1929, played an important role in the life of the Academy. If defined the trends of the further development of the Academy in training and educating the ufficer students Paramount importance was attached to the combination of study of social sciences, with all-round military training The time allotted for mastering military subjects had increased eccordingly. The command practice (a probatransry fraining period) in the forces was introduced The students studied at the following faculties a combined erms faculty, on Air Force leculty, a Nevel feculty and a militarypedagogical faculty

On January 11, 1938, the Academy was named after Visit and Lych Lenin, If was transferred from Leningrad to Moscow that same year.

From the very first days of the Great Patriotic War (1941-45) the Academy reorganised its activity in conformity with new tasks. The term of the study was reduced. The number of officer-students increased poveral times.

During the first six months of the war I trained several thousand political workers for the front All in all, over 17,500 men passed through its halls during the war. Political workers, graduates of the Academy, distinguished themselves as skilled organisers of the political

a more are the back time top

education of the Soviet lighting men, and provided examples of courage and staunchness in lighting the nasi inveders.

Major V, Markushev, an officer-student of the Academy, particularly distinguished himself during the Battle of Kursk in 1943. Flying a fighter aircraft he personally shot down 29 enemy planes, He was awarded the lofty title of Hero of the Soviet Union.

In the grim year of 1941, Bettalion Commisser M. Artyukhov, together with a group of officer-students of the Academy went to the Iron. He traversed the hard roads of the war all the way to Berlin. Before the finel storming of the nasi capital Lieutenant-Colonel M. Artyukhov. Chief of the Political Department of the 150th Intentry Division, handed the Red Benner of the Military Council of the Army to reconneissance men Sergeent M. Vegorov and Junior Sergeent M. Kanterie, who hoisted it over the fallen Reichsteg as the Benner of Victory.

Over 150 students of the Academy were honoured with the high title of Hero of the Soviet Union, over 100 men were appointed to the grade of generals and admirals.

During the war the teaching staff of the Academy did considerable work in generalising and propagandising the experience of Partypolitical work accumulated in the forces.

In connection with the ever growing demands in cadres of the political workers, in June 1943 the Academy was transformed into the Higher All-Army Military-Political Courses of the Main Political Administration of the Workers and Peasants Red Army with a one-year term of study, and in 1947 the Courses were again reorganised into the Lenin Military-Political Academy. The first postwar graduation look place at the Academy in 1949. This year marked the Academy's S6th graduation ceremony.

In the postwer period deep qualitative changes caused by the scientific and technological revolution in the art of warfare look place in the poviet Armed Forces. In this connection more complex tasks arose in training political workers of higher qualification which left is imprint on the activity of the Academy. From the 1956-57 ecademic year the Military-Political Anademy began to train teachers of social sciences for higher military educational

establishments and military lawyers. The number of specialised faculties increased substantially. Estramural and academic courses were organised which are training anew the leading political personnel of the Armed Forces and teachers and instructors for military schools.

Today the Lenin Military-Political Academy has a large and highly qualified teaching staff, more than 60 per sent of them having scientific degrees. Over 30 doctors of sciences and professors work at the Academy. At faculties of the social sciences 35 per cent of the teaching staff are candidates of sciences and assistant professors. Over 100 professors and teachers and permanently assigned personnel are veterans of the Great Patriotic War. Among them, are Heroes of the Soviet Union Major-Oeneral V. Zdunov, Colonels V. Yevdokimov, Ve. Sukharev and others.

The basis of the process of instruction consists in studying social sciences, such as: the history of the Communist Party of the Soviet Union, Marsist-Leninist philosophy, political economy, scientific Communism, and the history of the international Communist, Workers' and national-liberation movement. Partypolitical work, military pedagogics and psychology occupy on important place in the curriculum. The officer-students also study the organisation and structure of the forces, ways of combat employment of various armed services of the Armed Forces and lighting arms in modern warlers and also the letest means of armed struggle. Lectures on the history of military art are being delivered to the students.

Excellent training facilities are provided: well-equipped laboratories, classrooms and a fraining centre. The Academy has a large book stock, many reading halls, a study of Marxism-Leninism, special classes on different armed services of the Armed Forces and combat equipment.

The main stress in the training of the officerstudents is made on developing an ability in them to ecoure by independent and persistent labour the firm and deep knowledge necessary for a political worker of today.

The officer-students perfect and consolidate the theoretical knowledge they acquire during the field exercises which are corried out with due regard for the practical experience of fraining and education accumulated in the

forces. The military training of the men is closely coordinated with the organisation of Party-political work in the army and navy. During the term of study they undergo practice as deputy chiefs of political departments, deputy commanders of units and ships for political affairs, propagandists and teachers of social disciplines at the higher military-political and other schools.

During the last five years from 1974 to 1979, the Academy graduated several thousand political workers and military instructors. Among its graduates are pilot-cosmonauts of the USSR Ve. Khrunov and V. Zholobov. Today its graduates occupy many leading posts in the Soviet Army and Navy. All members of military councils — chiefs of political administrations of military districts, groups of forces and fleets, nearly all chiefs of political departments of formations, over three-fourths of the deputy regiment (ship) commanders for political effeirs and the equivalent units — are graduates of the Academy.

The Lenin Military-Political Academy renders great assistance to the armies of the countries of the socialist community in training political personnel of high qualification. A number of officers of the fratemal countries studied here. They successfully use the knowledge they received at the Academy in their practical work.

For its great services in training the cadres of the political workers for the armies of the socialist countries and its contribution to the propagandisation of the Leninist theoretical legacy the Academy was awarded the Orders of the People's Republic of Bulgaria, the Hungarian People's Republic, the Socialist Republic of Vietnam, the German Democratic Republic, the Mongolian People's Republic, the Czechostovak Socialist Republic

The Academy is a large scientific and theoretical centre of the Soviet Armed Forces. From 1939, when the defending of theses was begun at the Academy, by 1978 over 1,700 candidates and over 120 doctors of sciences have been trained.

Scientific-research work of the Academy includes political and military themes and is directed at examining the ideological military and theoretical legacy of Vladimir Lenin, the activity of the Communist Party concerning the creation and strengthening of the Soviet Armed Forces, as well as the methodological problems of military theory and practice and questions of Party-political work in the army and nevy.

The scientists of the Academy wrote many scholarly works. Such works as "Vladimir Lenin and the Soviet Armed Forces," "The CPSU and the Construction of the Soviet Armed Forces," "Marxism-Leninism on War and the Army," "Methodological Problems of Military Theory and Practice," "Philosophical Legacy of Vlarimir Lenin and Problems of Modern Warfsre," works on the theory and practice of the Party-political work and others are generally recognised in this country and abroad. Great aftention is paid to the scientific research work in the field of military pedagogics and psychology.

For the last ten years over 50 scientific works written by the Academy's teachers have been translated into foreign languages. Eighty per cent of the officer-students are actively participating in the circles of the military and scientific society. The scope of actual theoretical investigations connected with the further enhancement of the combat readiness of the Soviet Armed Forces continues to broaden.

By fraining highly qualified cadres of political workers, military instructors and journalists, the Lenin Military-Political Academy is making a worthy contribution to the further strengthening of the army and navy

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COLONEL RYBKIN COMMENTS ON WESTERN MILITARISM

Moncow SOVIET MILITARY REVIEW in English No 12, Dec 79 pp 45-47

[Article by Col Ye. Rybkin, D. Sc. (Philosophy), professor: "Apologists of Militarism"]

[Text]

Many lacts and developments in the world areas are indicative of the continuing struggle between two trends in the development of the international situation — the trend towards the furthering and consolidation of detente and the strangthening of peace and the trend towards the subversion of detente and rolling back of mankind to the cold war period.

The latter half of the 1970s was marked by outstanding events of great complexity on the international scene. The socialist countries made steady headway, the peoples of Africa, Asia and Latin America scored new victories in their high! for national liberation and social emancipation and the working people of the capitalist countries stepped up the class struggle.

At the same time this was a period, when the most reactionary forces of imperialism, the munitions manufacturers and promoters of the cold war joined hands in a broad campaign against detente, disarmament and the fight for liberation. Even today they have been making reference to the non-existent Soviet threat, demanding further appropriations amounting to thousands of millions of dollars for military purposes, for the development of increasingly destructive types of weapons. They have been resorting to force to suppress the liberation movements of nations and have been interfering in the internal effairs of other countries.

The contention between detente end entidétente has been manifest in the sharpening ideological struggle between the two opposite social systems. The exacerbation of the struggle was no extraordinary development. The ideological struggle is a law-governed form of class struggle. And as the 25th CPSU Congress put it detente does not abolish nor can it abolish or after the laws governing the class struggle.

The historical optimism of Merxist-Leninist ideology is based on the knowledge of the laws governing the development of society. These laws condition the need and possibility for removing world war from the life of society. In their foreign policy the Soviet Union and the other countries of the societist community firmly adhere to the strategy of peace proclaimed by Vladimir Lenin.

The practical experience accumulated in the postwar decades has revealed the complete superiority of the peaceful ideology of Marxism-Leninism over the bourgeois ideology of war and aggression, with enti-communism forming its core. The enti-communists are casting expersions on the socialist system, they have been misrepresenting the policy and aims of the Communist Parties and the doctrine of Marxism-Leninism. Anti-Sovietism is an important form of present-day anti-communism. Its purpose is to concentrate the efforts of bourgeois ideologists on discrediting the Soviet Union with a view to winning over its natural affect to their side.

There was a time when bourgeois ideologists proclaimed the concept of "de-ideologisation" in a bid to use the slogan of "weekening" and even "discontinuing" the struggle of ideas to sap the growing influence of Marxism-Lennism on the world public. However, the advancement of this concept by imperialist ideologists failed to produce the desired results. That was why they were pleased to support the line for "re-ideologisation" which had been proposed by Zbigniew Brzezinski, present leader of anti-Sovietism.

"Re-ideologisation" essentially boils down to the abandonment of slogans for "softening" or "disconti-

nuing" the struggle of ideas and to switching over to the factics of "direct attacks" on socialism and its ideology.

The adherents of this line will not shrink away from any means that will help them in casting slurs upon socialism, in distorting its policy and practices. They have resurrected the outdated myths about the "export of revolution" and the "threat of war" that stems from the Soviet Union and the other Warsaw Treaty countries. At the same time the theorists of militarism have refurbished their ideas about the eternal and even beneficial character of wars that can never be removed from the life of society.

Militarism is an extremely complex phenomenon. It covers and pervades all spheres of life of bourgeois society from the economy to culture, it comprises a system of forceful means for the ensurance of the interests of the capitalists, in the sphere of ideology militarism manifests itself in two basic forms — primitive psychological and theoretical.

The former is intended for the consumption of the masses. It is based on the use of primitive methods of misinformation. Lies and slander addressed to the "man hithe street" in the capitalist countries play a big role in this. The aggressive forces of imperialism and its applicable have been trying to make it appear as it detents has fulled NATO," whereas the Soviet Union and its allies intend "to invade the Western countries." They contend that it will take the USSR and its allies only 48 hours to "reach the Rhine" and "two weeks to get to the Atlantic coast." As a rule, these quarters only voice their inventions about the "aggressive" character of communism without providing any proof.

Marxism-Leninism has never hinged the victory of socialism on world war. On the contrary, socialist ideology states that socialism is to remove war from the life of society once and for all. The more destructive the wars the greater the determination displayed by the countries of the socialist community in working for this noble goal.

The other so-called "theoretical" form of militarist ideology comprises various "theories" and special investigations designed to oppose. Marxism-Leninism with their own bourgeois doctrines about the causes, essence and historical role of war and ideologically to substantiate the military doctrines of the imperialist states. The long-standing aim of such struggle in the theoretical field is to prove that wars are not conditioned by private ownership, that they are not rooted in the nature of capitalism, but that they are due to a whole range of factors which make them inevitable.

If is possible to single out several lines in the development of militarist doctrines. The first of these is the psycho-biological line which seeks to justify were by the far-fetched idea about "aggressive human nature."

That these concepts are unsound is obvious. First, attempts to present man's intellectual activity as instinctive and unconscious result in the denial of one of man's main features, namely his consciousness and selfconsciousness. Karl Marx and Frederick Engels pointed out that ever since man appeared he differed from animais in that consciousness replaced instinct or that he was conscious of his instinct. Second, if the masses sometimes really favour war end even spontaneously take arms in hand, their actions are not guided by instinct. but are conditioned by profound socio-economic and political causes (mainly by the use of force by the ruling cliques, the calamities and suffering experienced by the masses) which give rise to the pertinent psychological response and make them conscious of the need for waging an armed struggle.

Irrationalistic theories form a peculiar branch of psycho-biological theories of war. These theories mainly ascribe wars to "mysterious" "incognisable" causes Werner Picht, the West German military historian, is an eminent representative of the irretionalistic line in bourgeois thought. He described war as a "phenomenon in human existence which is most difficult to cognise." The irrationalists say that it is utterly impossible to establish any effective control over the forces that lead to the outbreak of wars. From the standpoint of theory these concepts are self-deleating, because reference to incognisability is by no means scientific proof. If denies the possibility of scientific knowledge. However, from the standpoint of the ideological struggle the ir rerislists find it highly advantageous, because it helps prepare people for war.

Concepts connected with the scientific and technological revolution constitute an important line in the current evolution of bourgeois doctrines about the causes end essence of war. The advocates of these concepts essert that the rapid development of technology causes man to be dominated by if and prompts him to employ technical equipment for purposes of war. However these authors prefer to keep silent about a factor of cardinal importance, namely that not every man, not every class and not every government are interested in using technological achievements to prepare for war It is only the exploiting classes that are interested in this. Their desire for the use of force end for eggression stems from their social nature. The broad masses of people in general, the masses of working people in particular, and genuinely people's governments resolutely reject such a policy, because it is alien to them

The further modernisation of the neo-Malthusian doctrine forms another area in militarist theories. Its proponents see a threat of war in the present "demographic eruption" currently observed in the developing countries. They have made an attempt to generate fear in the Philistine with their references to a future "invasion" from the expenses of Asia, Africa and Latin America.

In this context it should be pointed out that there is no direct connection between the growth of the population and war fletative overpopulation is the result of inadequate supply and uneven distribution of the means of subsistence. These phenomena in turn are rooted in social causes. The appearance of relative redundancy in the population which in the past was responsible to a certain degree for invasions by namedic tribes was conditioned by the aggravation of the contradiction between the character of production and consumption in an exploiting society. The unfortunate masses that were deprived of adequate means of subsistence at home became recruits in an army carrying out expansion under the guidance of a ruling "wall-tedo" class. Redundant population was never the primary cause of plunder and conquest. The primary cause of this has always been and continues to be the policy of the ruling clique in exploiting society.

In referring to such theories Vladimir Lenin wrote"Nothing is easier than to teck an 'energeticist' or 'biologico-sociological' label on to such phenomena as
crises, revolutions, the class struggle and so forth; but
neither is there anything more sterile, more scholastic
and illetess than such an occupation." Lenin pointed
out that were were rooted in the very assence of capilatism.

The ideologists of militarism have spared no effort to provide ideological and political substantiation for war against the USSR. They have justified in every possible way and given ideological support to all the military doctrines of the USA and NATO, starting with the theory of "massive retaliation" of the 1950s and ending with the present doutrine of "realistic deterrence".

However, all their attempts ideologically to substantiate an atomic-eir and later a nuclear missile imperialist blitzkrieg against the USSR, all their attempts to combine the threat of total nuclear war against the socialist world with local wers and subversive activities have proved futile. It is not fortuitous that the more soberminded Western ideologists have frankly stated that a nuclear war on a world scale will hardly bring victory to imperialism. It is precisely this realisation that ceused some of the leaders of the top imperialist powers to sign treaties that inaugurated détents.

It is only fair to say that not all Western social scientists are in the service of militarism. Far from it. Not all of them justify war and the efforts of the military-industrial complex to prepare for war. The law-governed process of world development has prompted Western scholars to reckon more and more with the political theory and practice of Merzism-Leninism. This logic imperatively calls for cooperation of states belonging to

different social systems. If requires that scientists and scholers cooperate in the solution of global social problems, such as those bearing on the preservation of peace, disermament, retional utilisation of the natural resources of land, the World Ocean and space exploration.

Such cooperation is gradually making progress and the international Political Science Association is promoting it. In the middle of August 1979 the 11th World Congress of the 195A was held in Moscow. It was attended by 1,500 Soviet and foreign scientists from every continent. It is worth noting that the first theme it examined was the "Policy of Peace." The discussions on it were fruitful. They showed that the Leninist principles of peaceful coexistence, the USSR's unflagging peace effort and the scientific fundamentals of the CPSU's foreign policy aimed at achieving detente and at removing wers from the life of society have won great prestige in the world.

Despite this, the militerists are spering no pains in urging the USA to attain military superiority over the USSR. The propagenda campaign flared up with particular force before the NATO session in December in Brussels where the USA hope to impose on their bloc partners plans to deploy up to 600 US medium-range nuclear missiles in Western Europe. The implementation of this plan would upset the balance of forces between NATO and the Wersew Treaty Organisation now observed on the European continent.

In order to evert another upward spiral in the arms race, to preserve and augment the gains and achievements of détente and peaceful cooperation, the Soviet Union expressed its readiness to reduce the number of medium-range nuclear weapons deployed in the wastern part of the country, proposed to begin negotiations on mutual reduction of these forces in Europe.

The interests of peace and security demand concentrated efforts in fighting against outspoken apologists of thermonuclear war on a world-wide scale and against all and sundry ideological sallies designed to gain military superiority by the imperialists.

. . .

At present the ideology of militarism is in the grips of a grave crisis. At the same time if would be wrong to underestimate its danger. L. I. Brezhnev said:

"Militarism cripples not only the society that has produced it. The exhaust gas emitted by the war-preparation machine poisons the political atmosphere of the world with fumes of hatred, fear and violence."

Therefore, the efforts to prevent the further spreading of the "exhaust gas" of militarist ideology is a vital task in the class struggle of socialism in the international scane.

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LENIN'S VIEWS ON PURPOSE AND ESSENSE OF ARMED PORCES

Moscow SOVIET MILITARY REVIEW in English No 3, Mar 81 pp 6-8

[Article by Col V. Aidarov: "V. 1. Lenin on the Essence and Purpose of the Army"]

[Text]

The history of military science is more than three thousand years old. Armies appeared when the slave-owing exploiter state system was formed as a weapon in the hands of the ruling classes for capturing slaves and keeping them in submission. The organisation, armament and methods of warters of such armies have been studied thoroughly enough.

In the past the majority of researchers studied the purely military side of the use of armies, i.e. focussed their ettention primarily on military matters. Only K. Marx, F. Engels and V. Lenin studied the armed forces from the point of view of their purpose and the role they played in the state structure and also the mode of production which fostered both the state and its army. They explained scientifically the causes of the appearance of the army and of its function — to serve as an instrument of the internal and external policies of the ruling classes. Their thoughts about the necessity after the victory of the revolution of breaking up the old army, which is a weapon of oppression in the hands of the exploiters, and replacing it with a new military organisation capable of defeating the counter-revolution are still of immense scientific and practical value.

Before V. I. Lenin Marxists held the view that an army as a standing force would not be necessary in the socialist state. They believed that in the process of socialist revolution the bourgeois army would be replaced by a general armament of the people, a socialist militia. Such a conclusion was based on the possibility of a simultaneous victory of the socialist revolution in all or most of the developed capitalist countries.

However, in the epoch of imperialism V. I. Lenin studied the problem of the forms of the victorious proleteriet's military organisation from a new engle. He substantiated the necessity for creating a regular socialist army. In this V. I. Lenin proceeded from the objective laws of class struggle against the bourgeoiste both inside and outside the country in the epoch of imperialism. He taught that in its struggle against the forces of socialism the monopoly bourgeoiste would not stop at enything, not even open

armed violence, war. Therefore, in order to resist, the masses should be reedy to suppress the violence of reaction with the violence of revolution. Since the imperialist bourgeoisle possesses regular military forces and uses them in its counter-revolutionary eims, the victorious proletariat needs a powerful regular army to protect its Socialist Motherland and wage a revolutionary enablest the aggression of imperialists. The oppression of imperialists. The oppression end peoples rising against the domination of the end of their national liberation are forced to create their armed forces. Thus, armies of the revolutionary classes and national-liberation armies of the oppressed peoples are created.

On the other hand V. I. Lenin stressed the necessity for including in the new army as many as possible of the military specialists of the old army who are devoted to the people and ready to serve it dutifully.

V. I. Lenin proved that there could be no army "in general," but only a concrete army, belonging to a state of a definite type, having a definite character and purpose, serving definite coases and possessing definite combat capabilities. According to his teaching these characteristics determine the social essence of every army.

The army of the socialist state differs basically in its socio-political essence from all previous types of armies. All the armies in the history of mankind which came before the socialist one, i.e. slave-owing, feudal, bourgeois armies, carried out, and the bourgeois ones are still carrying out, two functions: Internal and external (by functions of an army we mean its main activities as an armed force). The internal function consists in oppressing the working masses, keeping them in submission to the exploiting minority; the external function, as a rule, consists in capturing foreign territories, enslaving and appressing other peoples. These are, so to speak, the "eternal" functions of exploiter armies. At the same time the internal function is always the basic one. V. I. Lenin wrote: "Everywhere, in all countries the standing army is used not so much against the external as against the Internal enemy. Everywhere the standing army has become the weapon of reaction, the servant of capital in its struggle against labour, the executioner of the people's liberty."

In this connection it is sufficient, for example, to cite the fect that the United States. Armed. Forces have a special manual of riot suppression. It states that the most effective form of controlling rioters is the fire of weapons of all kinds. Moreover, it recommends to fire not to wound, but to kill and to fire at leaders in the first place.

The reactionary and anti-popular character of the armies of exploiter states was sharply intensified as a result of the passing of capitalism into its highest and last stage — imperialism. In conditions of increasingly acute internal and external contradictions, of the growth of the revolutionary struggle of the working class, of the appearance of the world socialist system and the growth of its international influence, and of the unprecedented spread of the national-liberation movement, the imperialists more and more often use their armed forces or persistently prepare them for such use even in spite of the political détente which is taking shape.

The principal tasks and purposes of the armies of capitalist states are formed in accordance with the general policy of imperialism: preparation for war against the Soviet Union and other socialist countries, suppression of the national-liberation movement in dependent countries, repression of progressive and revolutionary forces both in their own and dependent countries.

At the beginning of its existence the socialist army also performs the two functions, internal and external. But the essence of these functions of the socialist army is quite different from that of the previous types of armies. When socialism comes into existence the exploiter classes are repressed in the interest of strengthening the power of the working people. Under the objective conditions of growth and consolidation of the new society the internal function gradually loses its significance and ceases to exist. The Programme of the CPSU states that from the point of view of the internal conditions the Soviet Union needs no army. Here lies one of the principal differences between the Soviet Army and the armies of bourgeois states, where the internal function, far from dying out, constantly grows.

The necessity for a socialist army to carry out the external function is linked with the existence of imperialism, its aggressive character and the military threat it poses. The aggressive strivings of imperialism and its military blocs, the very nature of the imperialist system — these are the reasons which determine the need of constant care for the security of the country, protection of the socialist gains.

Basing himself upon the theoretical legacy of K. Marx and F. Engels and analysing the contemporary historical conditions, V. I. Lenin enriched Marxism with new conclusions and propositions on the defence of the Socialist Motherland.

V. I. Lenin proceeded from the assumption that in the epoch of imperialism, the socialist revolution — socialism — would triumph not simultaneously and not in most countries at once. Due to the law of uneven economic and political development the victory of socialism is possible in one or several countries. As for the rest of the countries they will stay for a certain period, even quite a long one, on the bourgeois or pre-bourgeois level. Therefore the emerging socialist state will coexist with capitalist states which are hostile to it. In this case the victory of the socialist revolution "is bound to create not only friction, but a direct attempt on the part of the bourgeoise of other countries to crush the socialist state's victorious proletariet."

V. I. Lenin showed the justice and lawfulness of wars for defence of the Socialist Motherland which may be forced on the victorious proleteriat by the imperialist bourgeoisie. He wrote: "Since October 25, 1917, we have been defencists. We are for 'defence of the fatherland'; but that patriotic war which we are moving towards is a war for a socialist fatherland, for socialism as a fatherland, for the Soviet Republic as a contingent of the world army of socialism." Such a war is a continuation of the policy of revolution, overthrow of exploiters, capitalists and landlords, defence of the socialist cause.

Stressing the just and revolutionary nature of wars for defence of the Socialist Motherland, V. I. Lenin noted the popular and international character of the fighting army, its support by the entire people inside the country, the sympathy and help given by the working people of other countries.

V. I. Lenin revealed the content of defence of the Motherland as a complex of economic, social, political, military-organisational and ideological measures. The most importent among these were the country's economic buildup to provide the material and technical basis of defence,
the moral and political education of the people; formation of the armed forces and strengthening of their combat
power; the correct external policy with due regard for
the correlation of forces, skilful use of the contractions
within the imperialist camp, work for peaceful coexistence
and prevention of a new war.

One of Lenin's greatest services was that he showed the role of the socialist army as a decisive means of protecting the gains of socialism. The concept of the socialist army is one of the foundations of Lenin's teaching on the defence of the Motherland. It became a component part of Lenin's plan of socialist construction. V. I. Lenin developed the political and organisational principles of the socialist army, substantiated and solved practically the problems of detending the country and creating new, truly popular armed forces. At the same time he repeatedly warned that it was not enough merely to create the army, it was necessary to ensure its constant combat readiness and capability in order to prevent a surprise attack and being taken unawares.

V. I. Lenin said that a regular army is "characteristic of the consolidated power of every class, including the proletariat." This statement has been fully supported by reality, it is the basis for military construction in the socialist states.

According to the experience gained, the building of a regular army may be accomplished in combination with elements of a militia system (universal military training of the working people, workers' militia, etc.) or even take the form of a territorial regular system as it was at one time in the USSR. But even in this case professional formations played the decisive role.

Following Lenin's behests the Communist Perty reared an army of a new type which embodied in its organisational structure, recruitment, equipment, training and the education of its personnel everything which is best and most powerful in the socialist system.

The Soviet Army and Nevy grew and matured together with the country. Successfully putting into practice Lenin's plan of socialist construction, the Communist Party and the Soviet people strengthened the Armed Forces, supplying them with new combat material and equipment, educating servicemen in the spirit of Lenin's ideas and behasts.

The war against fascist Germany (1941-45) became a severe test for the Soviet people. As in the years of the Civil War (1918-20) Lenin's Party was the organiser and inspirer of the struggle against the invaders. Its activity in the deadly struggle against German fascism, the striking force of world imperialism, was guided by Lenin's ideas on the defence of the Socialist Motherland. The Soviet soldiers fought and defeated the enemy keeping Lenin's great ideals in their hearts. And when thirty-six years ago, in May 1945, the scarlet Banner of Victory rose above the defeated Reichsteg it was the Banner of October, the Banner of Lenin.

"Defence of the Socialist Motherland is one of the most important functions of the state, and is the concern of the entire people," states the Constitution of the USSR. "In order to defend the gains of socialism, the peaceful labour of the Soviet people and the sovereignty and territorial integrity of the state the USSR maintains armed forces and has instituted universal military service." In accordance with the Constitution military service in the USSR is an honourable responsibility, and defence of the Motherland is a sacred duty of citizens.

The Soviet Army has been brought up in a spirit of deep devotion to the Socialist Motherland, ideas of socialism and internationalism, friendship between nations. That is where its difference from bourgeois armies lies, and that is the basis of its moral potential.

The moulding of Soviet soldiers as ardent patriots and staunch internationalists proceeds under the influence of the Soviet socialist way of life, purposeful Party-political and ideological work, inseparable unity of the army and the people.

A revolution, as V. I. Lenin taught, must be able to defend itself, must counter the aggressive aspirations of the class enemy with unconquerable military power. That is why socialist society obliges every one of its members to be ready, not in words but by deads, to fulfil his patriotic duty of defending the Motherland.

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